ALS Environmental

Metals

Case Narrative

Colorado Oil & Gas Conservation Commission

TBAL

Work Order Number: 1309217

1. This report consists of 1 water sample.

2. The sample was received cool and intact by ALS on 09/17/13.

3. The sample was to be analyzed for dissolved metals. The sample was filtered through a 0.45 micron filter and preserved with nitric acid to a pH less than 2 prior to analysis.

4. The sample was prepared and analyzed based on Methods for the Determination of Metals in Environmental Samples – Supplement 1 procedures.

   Prior to analysis by Trace ICP, an ionization buffer was added to the sample to improve the sodium and potassium quantitation.

   For analysis by Trace ICP and ICP-MS, the sample was digested following method 200.2 and the current revision of SOP 806.

5. Analysis by Trace ICP followed method 200.7 and the current revision of SOP 807.

   Analysis by ICP-MS followed method 200.8 and the current revision of SOP 827.

6. All standards and solutions are NIST traceable and were used within their recommended shelf life.

7. The sample was prepared and analyzed within the established hold times.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.

- A filter (method) blank and laboratory control sample were filtered, preserved, and digested at the same time as the sample.
- The preparation (method) blank associated with each digestion batch was below the reporting limit for the requested analytes.
- All laboratory control sample criteria were met.
- All initial and continuing calibration blanks were below the reporting limit for the requested analytes with the exception of CCB1 for strontium. The samples bracketed by this CCB contained more than ten times the concentration of strontium that was detected in the CCB.
- All initial and continuing calibration verifications were within the acceptance criteria for the requested analytes.
- The interference check samples associated with Method 200.7 were within acceptance criteria.
- The interference check samples associated with Method 200.8 were analyzed.

9. Matrix specific quality control procedures.

   Per method requirements, matrix QC was performed for each analysis. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

10. It is a standard practice that samples for ICP-MS are analyzed at a dilution.

11. Sodium Adsorption Ration (SAR) was determined by calculation based on a reference from the client. Calcium, magnesium, and sodium concentrations were determined by ICP, Method 200.7.

    $SAR = Na/(((Ca+Mg)/2)^{1/2})$

    The analyte results are the me/L concentrations based on conversions from their mg/L concentrations. Please note that the SAR value is unitless.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Jill Latelle — 9/26/13

Jill Latelle
Inorganics Primary Data Reviewer

Date

Inorganics Final Data Reviewer — 9/26/13

Date

Inorganic Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Result qualifier -- A “B” is entered if the reported value was obtained from a reading that was less than the Reporting Limit but greater than or equal to the Method Detection Limit (MDL). If the analyte was analyzed for but not detected a “U” is entered. For samples, negative values are reported as non-detects (“U” flagged). For blanks, if the absolute value of the negative value is above the MDL and below the reporting limit, then the result is “B” flagged.

- QC qualifier -- Specified entries and their meanings are as follows:

  E - The reported value is estimated because of the presence of interference. An explanatory note may be included in the narrative.

  M - Duplicate injection precision was not met.

  N - Spiked sample recovery not within control limits. A post spike is analyzed for all ICP analyses when the matrix spike and or spike duplicate fail and the native sample concentration is less than four times the spike added concentration.

  Z - Spiked recovery not within control limits. An explanatory note may be included in the narrative.

  * - Duplicate analysis (relative percent difference) not within control limits.

  S - SAR value is estimated as one or more analytes used in the calculation were not detected above the detection limit.

Chain of Custody

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1309217
Client Name: Colorado Oil & Gas Conservation Commission
Client Project Name: TBAL
Client Project Number:
Client PO Number: PHA 14-22

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Trip Blank	1309217-1		WATER	16-Sep-13	6:00
752778 Nelson	1309217-2		WATER	16-Sep-13	9:56

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #	1309217
PAGE	1 of 1
DISPOSAL	(By Lab) or Return to Client

PROJECT NAME	TBAL	SAMPLER	Gintautas
PROJECT No.		SITE ID	
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	Colo. Oil & Gas Cons. Comm.	BILL TO COMPANY	
SEND REPORT TO	Peter Gintautas	INVOICE ATTN TO	
ADDRESS	PO Box 108	ADDRESS	
CITY / STATE / ZIP	Trinidad CO 81082	CITY / STATE / ZIP	
PHONE	719-846-3091	PHONE	
FAX		FAX	
E-MAIL	peter.gintautas@state.co.us	E-MAIL	

DATE: 16 Sept 2013
TURNAROUND: 30 day

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	8260	TOC	Dissolved Gases	8270 1,4-Dioxane + TICs	200.7 (dissolved)	200.8 (dissolved)
1	Trip Blk	W	16 Sept 2013	06:00	2	1		X					
2	752778 Nelson	W	16 Sept 2013	09:56	3	1		X					
↓	752778 Nelson	W	16 Sept 13	09:56	1	3			X				
↓	752778 Nelson	W	16 Sept 13	09:56	6	8				X	X	X	X

200.7_COGCC_11, Be_200.7_COGCC, 200.7_P, 200.7_S
200.6_COGCC_16, Na_200.8, Th_200.8, Cerium, Lanthanum, Neodymium, Praseodymium, Yttrium

*Time Zone (Circle): EST CST (MST) PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: Anions = Br, Cl, F, NO3, NO2, SO4
dissolved metals = filter and preserve at lab

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
X	LEVEL IV (Std QC + forms + raw data) QC only

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	[signature]	Peter Gintautas	16 Sept 13	13:15
RECEIVED BY	[signature]	Lauren Schmitz	9/17/13	0920
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Environmental - Fort Collins
CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCC Workorder No: 1309217

Project Manager: ARW Initials: LAS Date: 9/17/13

1. Does this project require any special handling in addition to standard ALS procedures?		YES	(NO)
2. Are custody seals on shipping containers intact?	NONE	(YES)	NO
3. Are Custody seals on sample containers intact?	(NONE)	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		(YES)	NO
5. Are the COC and bottle labels complete and legible?		(YES)	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	(YES)	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	(YES)	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	(YES)	NO
10. Is there sufficient sample for the requested analyses?		(YES)	NO
11. Were all samples placed in the proper containers for the requested analyses?		(YES)	NO
12. Are all samples within holding times for the requested analyses?		(YES)	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		(YES)	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: ____ < green pea ____ > green pea	N/A	(YES)	NO
15. Do any water samples contain sediment? Amount Amount of sediment: ____ dusting ____ moderate ____ heavy	N/A	YES	(NO)
16. Were the samples shipped on ice?		(YES)	NO
17. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: (#2) #4	RAD ONLY	(YES)	NO

Cooler #:	1							
Temperature (°C):	2.0							
No. of custody seals on cooler:	1							
DOT Survey/ Acceptance Information — External µR/hr reading:	11							
Background µR/hr reading:	10							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? **YES / NO / NA** (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

If applicable, was the client contacted? **YES / NO / NA** Contact: _____ Date/Time: _____

Project Manager Signature / Date: 9/17/13

*IR Gun #2: Oakton, SN 29922500201-0066
*IR Gun #4: Oakton, SN 2372220101-0002

1309217

From: (719) 846-3091
Peter Gintautas
Colo. Oil & Gas Cons. Comm.
213 Corundum RD

Trinidad, CO 81082

Origin ID: PUBA

FedEx Express

J13201306280326

Ship Date: 16SEP13
ActWgt: 19.0 LB
CAD: 4076443/INET3430

Delivery Address Bar Code

SHIP TO: (970) 490-1511

BILL SENDER

Amy Wolf
ALS Laboratory Group
225 COMMERCE DR

FORT COLLINS, CO 80524

Ref # Special Project TBAL
Invoice #
PO #
Dept #

TUE - 17 SEP 10:30A
PRIORITY OVERNIGHT

TRK# 0201 7966 9512 4219

72 FTCA

80524
CO-US
DEN

2.0

51AG1/9256/1A9E

Sample Results

Dissolved Metals by 200.7

Method EPA200.7 Revision 4.4

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Field ID: 752778 Nelson
Lab ID: 1309217-2

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 16-Sep-13
Date Extracted: 24-Sep-13
Date Analyzed: 25-Sep-13
Prep Method: EPA200.2 Rev 2.8

Prep Batch: IP130924-3
QCBatchID: IP130924-3-1
Run ID: IT130925-2A4
Cleanup: NONE
Basis: As Received
File Name: 130925A.

Analyst: Steve Workman
Sample Aliquot: 50 g
Final Volume: 50 g
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit\ LOD\LOQ	MDL/DL	Result Qualifier	EPA Qualifier
7440-41-7	BERYLLIUM	1	0.00037	0.002	0.0003	B	
7440-42-8	BORON	1	0.03	0.1	0.03	U	
7440-70-2	CALCIUM	1	3.7	1	0.06		
7440-47-3	CHROMIUM	1	0.0015	0.01	0.0015	U	
7439-89-6	IRON	1	0.006	0.1	0.006	U	
7439-93-2	LITHIUM	1	0.011	0.01	0.003		
7439-95-4	MAGNESIUM	1	0.11	1	0.06	B	
7440-02-0	NICKEL	1	0.006	0.02	0.006	U	
7723-14-0	PHOSPHORUS	1	0.06	0.2	0.06	U	
7440-09-7	POTASSIUM	1	0.5	1	0.2	B	
7440-21-3	SILICON	1	3.4	0.05	0.015		
7440-23-5	SODIUM	1	110	1	0.09		
	SODIUM ADSORPTION RATIO	1	16	0.17	0.062		
7704-34-9	SULFUR	1	0.15	0.2	0.06	B	
7440-62-2	VANADIUM	1	0.0015	0.01	0.0015	U	

Data Package ID: *it1309217-1*

Dissolved Metals by 200.8

Method EPA200.8 Revision 5.4

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Field ID: 752778 Nelson
Lab ID: 1309217-2

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 16-Sep-13
Date Extracted: 20-Sep-13
Date Analyzed: 21-Sep-13
Prep Method: EPA200.2 Rev 2.8

Prep Batch: IP130920-1
QCBatchID: IP130920-1-6
Run ID: IM130921-10A4
Cleanup: NONE
Basis: As Received
File Name: 022SMPL_

Analyst: Ross Miller
Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit\ LOD\LOQ	MDL/DL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.015	0.05	0.015	U	
7440-36-0	ANTIMONY	10	0.0013	0.0003	0.0001		
7440-38-2	ARSENIC	10	0.0006	0.002	0.0006	U	
7440-39-3	BARIUM	10	0.1	0.001	0.0003		
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-45-1	CERIUM	10	0.0001	0.0003	0.00009	B	
7440-48-4	COBALT	10	0.0003	0.001	0.0003	U	
7440-50-8	COPPER	10	0.003	0.01	0.003	U	
7439-91-0	LANTHANUM	10	0.00013	0.0003	0.00009	B	
7439-92-1	LEAD	10	0.00015	0.0005	0.00015	U	
7439-96-5	MANGANESE	10	0.0048	0.002	0.0006		
7439-98-7	MOLYBDENUM	10	0.029	0.001	0.0005		
7440-00-8	NEODYMIUM	10	0.00009	0.0003	0.00009	U	
7440-10-0	PRASEODYMIUM	10	0.00009	0.0003	0.00009	U	
7782-49-2	SELENIUM	10	0.0005	0.001	0.0005	U	
7440-22-4	SILVER	10	0.00003	0.0001	0.00003	U	
7440-23-5	SODIUM	10	120	1	0.3		
7440-24-6	STRONTIUM	10	0.12	0.001	0.0003		
7440-28-0	THALLIUM	10	0.00006	0.0002	0.00006	U	
7440-29-1	THORIUM	10	0.00006	0.0002	0.00006	U	
7440-61-1	URANIUM	10	0.00003	0.0001	0.00003	U	
7440-65-5	YTTRIUM	10	0.00009	0.0003	0.00009	U	
7440-66-6	ZINC	10	0.006	0.02	0.006	U	

Data Package ID: *im1309217-1*

Summary Report Forms

Metals by 200.7

Method EPA200.7 Revision 4.4

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: F130923-1MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 24-Sep-13
Date Analyzed: 25-Sep-13

Prep Batch: IP130924-3
QCBatchID: IP130924-3-1
Run ID: IT130925-2A4
Cleanup: NONE
Basis: N/A
File Name: 130925A.

Sample Aliquot: 50 g
Final Volume: 50 g
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit LOD/LOQ	MDL	Result Qualifier	EPA Qualifier
7440-41-7	BERYLLIUM	1	0.0003	0.002	0.0003	U	
7440-42-8	BORON	1	0.03	0.1	0.03	U	
7440-70-2	CALCIUM	1	0.06	1	0.06	U	
7440-47-3	CHROMIUM	1	0.0015	0.01	0.0015	U	
7439-89-6	IRON	1	-0.0081	0.1	0.006	B	
7439-93-2	LITHIUM	1	0.003	0.01	0.003	U	
7439-95-4	MAGNESIUM	1	0.06	1	0.06	U	
7440-02-0	NICKEL	1	0.006	0.02	0.006	U	
7723-14-0	PHOSPHORUS	1	0.06	0.2	0.06	U	
7440-09-7	POTASSIUM	1	0.2	1	0.2	U	
7440-21-3	SILICON	1	0.015	0.05	0.015	U	
7440-23-5	SODIUM	1	0.12	1	0.09	B	
7704-34-9	SULFUR	1	0.06	0.2	0.06	U	
7440-62-2	VANADIUM	1	0.0015	0.01	0.0015	U	

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7 Revision 4.4

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: F130923-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 09/24/2013
Date Analyzed: 09/25/2013
Prep Method: EPA200.22.8

Prep Batch: IP130924-3
QCBatchID: IP130924-3-1
Run ID: IT130925-2A4
Cleanup: NONE
Basis: N/A
File Name: 130925A.

Sample Aliquot: 50 g
Final Volume: 50 g
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7440-41-7	BERYLLIUM	0.05	0.0485	0.002		97	85 - 115%
7440-42-8	BORON	1	1.05	0.1		105	85 - 115%
7440-70-2	CALCIUM	40	40	1		100	85 - 115%
7440-47-3	CHROMIUM	0.2	0.211	0.01		106	85 - 115%
7439-89-6	IRON	1	0.976	0.1		98	85 - 115%
7439-93-2	LITHIUM	0.5	0.506	0.01		101	85 - 115%
7439-95-4	MAGNESIUM	40	40.4	1		101	85 - 115%
7440-02-0	NICKEL	0.5	0.522	0.02		104	85 - 115%
7723-14-0	PHOSPHORUS	10	10.4	0.2		104	85 - 115%
7440-09-7	POTASSIUM	40	42.4	1		106	85 - 115%
7440-21-3	SILICON	1	1.06	0.05		106	85 - 115%
7440-23-5	SODIUM	40	41.4	1		103	85 - 115%
7704-34-9	SULFUR	10	10.4	0.2		104	85 - 115%
7440-62-2	VANADIUM	0.5	0.511	0.01		102	85 - 115%

Data Package ID: *it1309217-1*

Prep Batch ID: IP130924-3

Start Date: 09/24/13
Start Time: 12:00
Prep Analyst: Nathan A. Quatier

End Date: 09/24/13
End Time: 18:00

Concentration Method: NONE
Extract Method: EPA200.22.8
Initial Volume Units: g
Final Volume Units: g

Batch Created By: bas
Date Created: 09/24/13
Time Created: 13:06
Validated By: bas
Date Validated: 09/24/13
Time Validated: 13:39

Comments:

QC Batch ID: IP130924-3-1

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
F130923-1	MB	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309258
F130923-1	LCS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309258
F130923-1	LCSD	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309258
1309258-1	MS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309258
1309258-1	MSD	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309258
1309258-1	DUP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309258
1309158-1	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309158
1309217-2	SMP	752778 Nelson	WATER	9/16/2013	50	50	NONE	1	1309217
1309258-1	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309258

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicat
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
RVS	Reporting Level Verification Standar	SMP	Field Sample
SYS	Sample Yield Spike		

Metals by 200.7

Method EPA200.7

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: ICV

QC Type: Initial Calibration

File Name: 130925A.

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 11:54

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.25	0.242	0.002		97	95 - 105%
7440-42-8	BORON	0.5	0.500	0.1		100	95 - 105%
7440-70-2	CALCIUM	25	24.5	1		98	95 - 105%
7440-47-3	CHROMIUM	0.5	0.487	0.01		97	95 - 105%
7439-89-6	IRON	10	10.0	0.1		100	95 - 105%
7439-93-2	LITHIUM	0.25	0.239	0.01		96	95 - 105%
7439-95-4	MAGNESIUM	25	24.5	1		98	95 - 105%
7440-02-0	NICKEL	0.5	0.501	0.02		100	95 - 105%
7723-14-0	PHOSPHORUS	2.5	2.48	0.2		99	95 - 105%
7440-09-7	POTASSIUM	25	24.8	1		99	95 - 105%
7440-21-3	SILICON	2.5	2.42	0.05		97	95 - 105%
7440-23-5	SODIUM	25	24.2	1		97	95 - 105%
7704-34-9	SULFUR	2.5	2.52	0.2		101	95 - 105%
7440-62-2	VANADIUM	0.25	0.248	0.01		99	95 - 105%

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCV1

QC Type: Continuing Calibration

File Name: 130925A.

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 12:04

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.480	0.002		96	90 - 110%
7440-42-8	BORON	1	1.01	0.1		101	90 - 110%
7440-70-2	CALCIUM	50	49.7	1		99	90 - 110%
7440-47-3	CHROMIUM	1	0.968	0.01		97	90 - 110%
7439-89-6	IRON	20	20.2	0.1		101	90 - 110%
7439-93-2	LITHIUM	0.5	0.522	0.01		104	90 - 110%
7439-95-4	MAGNESIUM	50	48.9	1		98	90 - 110%
7440-02-0	NICKEL	1	0.994	0.02		99	90 - 110%
7723-14-0	PHOSPHORUS	5	4.88	0.2		98	90 - 110%
7440-09-7	POTASSIUM	50	51.3	1		103	90 - 110%
7440-21-3	SILICON	5	4.75	0.05		95	90 - 110%
7440-23-5	SODIUM	50	51.2	1		102	90 - 110%
7704-34-9	SULFUR	5	5.00	0.2		100	90 - 110%
7440-62-2	VANADIUM	0.5	0.492	0.01		98	90 - 110%

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCV2

QC Type: Continuing Calibration

File Name: 130925A.

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 12:43

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.469	0.002		94	90 - 110%
7440-42-8	BORON	1	0.992	0.1		99	90 - 110%
7440-70-2	CALCIUM	50	48.6	1		97	90 - 110%
7440-47-3	CHROMIUM	1	0.947	0.01		95	90 - 110%
7439-89-6	IRON	20	19.8	0.1		99	90 - 110%
7439-93-2	LITHIUM	0.5	0.521	0.01		104	90 - 110%
7439-95-4	MAGNESIUM	50	48.1	1		96	90 - 110%
7440-02-0	NICKEL	1	0.993	0.02		99	90 - 110%
7723-14-0	PHOSPHORUS	5	4.74	0.2		95	90 - 110%
7440-09-7	POTASSIUM	50	51.0	1		102	90 - 110%
7440-21-3	SILICON	5	4.65	0.05		93	90 - 110%
7440-23-5	SODIUM	50	51.0	1		102	90 - 110%
7704-34-9	SULFUR	5	4.93	0.2		99	90 - 110%
7440-62-2	VANADIUM	0.5	0.484	0.01		97	90 - 110%

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCV3

QC Type: Continuing Calibration

File Name: 130925A.

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 13:12

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.485	0.002		97	90 - 110%
7440-42-8	BORON	1	0.997	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	48.8	1		98	90 - 110%
7440-47-3	CHROMIUM	1	0.988	0.01		99	90 - 110%
7439-89-6	IRON	20	19.7	0.1		99	90 - 110%
7439-93-2	LITHIUM	0.5	0.504	0.01		101	90 - 110%
7439-95-4	MAGNESIUM	50	48.1	1		96	90 - 110%
7440-02-0	NICKEL	1	1.00	0.02		100	90 - 110%
7723-14-0	PHOSPHORUS	5	4.85	0.2		97	90 - 110%
7440-09-7	POTASSIUM	50	50.8	1		102	90 - 110%
7440-21-3	SILICON	5	4.62	0.05		92	90 - 110%
7440-23-5	SODIUM	50	50.8	1		102	90 - 110%
7704-34-9	SULFUR	5	4.91	0.2		98	90 - 110%
7440-62-2	VANADIUM	0.5	0.483	0.01		97	90 - 110%

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCV4

QC Type: Continuing Calibration

File Name: 130925A.

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 13:33

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.483	0.002		97	90 - 110%
7440-42-8	BORON	1	0.997	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	48.8	1		98	90 - 110%
7440-47-3	CHROMIUM	1	0.986	0.01		99	90 - 110%
7439-89-6	IRON	20	19.7	0.1		98	90 - 110%
7439-93-2	LITHIUM	0.5	0.503	0.01		101	90 - 110%
7439-95-4	MAGNESIUM	50	48.0	1		96	90 - 110%
7440-02-0	NICKEL	1	1.01	0.02		101	90 - 110%
7723-14-0	PHOSPHORUS	5	4.86	0.2		97	90 - 110%
7440-09-7	POTASSIUM	50	50.8	1		102	90 - 110%
7440-21-3	SILICON	5	4.67	0.05		93	90 - 110%
7440-23-5	SODIUM	50	51.0	1		102	90 - 110%
7704-34-9	SULFUR	5	4.88	0.2		98	90 - 110%
7440-62-2	VANADIUM	0.5	0.482	0.01		96	90 - 110%

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCV5

QC Type: Continuing Calibration

File Name: 130925A.

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 14:00

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.486	0.002		97	90 - 110%
7440-42-8	BORON	1	1.01	0.1		101	90 - 110%
7440-70-2	CALCIUM	50	49.4	1		99	90 - 110%
7440-47-3	CHROMIUM	1	0.993	0.01		99	90 - 110%
7439-89-6	IRON	20	19.8	0.1		99	90 - 110%
7439-93-2	LITHIUM	0.5	0.505	0.01		101	90 - 110%
7439-95-4	MAGNESIUM	50	48.3	1		97	90 - 110%
7440-02-0	NICKEL	1	1.02	0.02		102	90 - 110%
7723-14-0	PHOSPHORUS	5	4.85	0.2		97	90 - 110%
7440-09-7	POTASSIUM	50	50.9	1		102	90 - 110%
7440-21-3	SILICON	5	4.69	0.05		94	90 - 110%
7440-23-5	SODIUM	50	48.9	1		98	90 - 110%
7704-34-9	SULFUR	5	5.01	0.2		100	90 - 110%
7440-62-2	VANADIUM	0.5	0.487	0.01		97	90 - 110%

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCV6

QC Type: Continuing Calibration

File Name: 130925A.

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 14:19

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.481	0.002		96	90 - 110%
7440-42-8	BORON	1	1.01	0.1		101	90 - 110%
7440-70-2	CALCIUM	50	48.8	1		98	90 - 110%
7440-47-3	CHROMIUM	1	0.982	0.01		98	90 - 110%
7439-89-6	IRON	20	19.6	0.1		98	90 - 110%
7439-93-2	LITHIUM	0.5	0.508	0.01		102	90 - 110%
7439-95-4	MAGNESIUM	50	48.2	1		96	90 - 110%
7440-02-0	NICKEL	1	1.02	0.02		102	90 - 110%
7723-14-0	PHOSPHORUS	5	4.78	0.2		96	90 - 110%
7440-09-7	POTASSIUM	50	51.1	1		102	90 - 110%
7440-21-3	SILICON	5	4.67	0.05		93	90 - 110%
7440-23-5	SODIUM	50	50.4	1		101	90 - 110%
7704-34-9	SULFUR	5	5.00	0.2		100	90 - 110%
7440-62-2	VANADIUM	0.5	0.483	0.01		97	90 - 110%

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCV7

QC Type: Continuing Calibration

File Name: 130925A.

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 14:41

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.478	0.002		96	90 - 110%
7440-42-8	BORON	1	0.999	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	48.7	1		97	90 - 110%
7440-47-3	CHROMIUM	1	0.980	0.01		98	90 - 110%
7439-89-6	IRON	20	19.5	0.1		98	90 - 110%
7439-93-2	LITHIUM	0.5	0.507	0.01		101	90 - 110%
7439-95-4	MAGNESIUM	50	48.0	1		96	90 - 110%
7440-02-0	NICKEL	1	1.03	0.02		103	90 - 110%
7723-14-0	PHOSPHORUS	5	4.72	0.2		94	90 - 110%
7440-09-7	POTASSIUM	50	51.0	1		102	90 - 110%
7440-21-3	SILICON	5	4.65	0.05		93	90 - 110%
7440-23-5	SODIUM	50	51.1	1		102	90 - 110%
7704-34-9	SULFUR	5	4.92	0.2		98	90 - 110%
7440-62-2	VANADIUM	0.5	0.481	0.01		96	90 - 110%

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCV8

QC Type: Continuing Calibration

File Name: 130925A.

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 15:00

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.470	0.002		94	90 - 110%
7440-42-8	BORON	1	0.997	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	47.8	1		96	90 - 110%
7440-47-3	CHROMIUM	1	0.961	0.01		96	90 - 110%
7439-89-6	IRON	20	19.2	0.1		96	90 - 110%
7439-93-2	LITHIUM	0.5	0.509	0.01		102	90 - 110%
7439-95-4	MAGNESIUM	50	47.5	1		95	90 - 110%
7440-02-0	NICKEL	1	1.02	0.02		102	90 - 110%
7723-14-0	PHOSPHORUS	5	4.74	0.2		95	90 - 110%
7440-09-7	POTASSIUM	50	51.0	1		102	90 - 110%
7440-21-3	SILICON	5	4.58	0.05		92	90 - 110%
7440-23-5	SODIUM	50	51.2	1		102	90 - 110%
7704-34-9	SULFUR	5	4.85	0.2		97	90 - 110%
7440-62-2	VANADIUM	0.5	0.474	0.01		95	90 - 110%

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCV9

QC Type: Continuing Calibration

File Name: 130925A.

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 15:08

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7440-41-7	BERYLLIUM	0.5	0.474	0.002		95	90 - 110%
7440-42-8	BORON	1	1.00	0.1		100	90 - 110%
7440-70-2	CALCIUM	50	48.7	1		97	90 - 110%
7440-47-3	CHROMIUM	1	0.974	0.01		97	90 - 110%
7439-89-6	IRON	20	19.4	0.1		97	90 - 110%
7439-93-2	LITHIUM	0.5	0.505	0.01		101	90 - 110%
7439-95-4	MAGNESIUM	50	47.8	1		96	90 - 110%
7440-02-0	NICKEL	1	1.03	0.02		103	90 - 110%
7723-14-0	PHOSPHORUS	5	4.72	0.2		94	90 - 110%
7440-09-7	POTASSIUM	50	50.8	1		102	90 - 110%
7440-21-3	SILICON	5	4.61	0.05		92	90 - 110%
7440-23-5	SODIUM	50	51.4	1		103	90 - 110%
7704-34-9	SULFUR	5	4.88	0.2		98	90 - 110%
7440-62-2	VANADIUM	0.5	0.479	0.01		96	90 - 110%

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: ICB

QC Type: Initial Calibration

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 11:58:00 AM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.002	U
7440-42-8	BORON	-0.00716	0.1	B
7440-70-2	CALCIUM	0.128	1	B
7440-47-3	CHROMIUM	0.00121	0.01	B
7439-89-6	IRON	0.00494	0.1	U
7439-93-2	LITHIUM	-0.00223	0.01	B
7439-95-4	MAGNESIUM	0.0368	1	B
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.00581	0.2	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	-0.0135	0.05	B
7440-23-5	SODIUM	0.0858	1	B
7704-34-9	SULFUR	-0.0129	0.2	B
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCB1

QC Type: Continuing Calibration

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 12:06:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.002	U
7440-42-8	BORON	-0.00496	0.1	B
7440-70-2	CALCIUM	0.155	1	B
7440-47-3	CHROMIUM	0.00129	0.01	B
7439-89-6	IRON	0.0178	0.1	B
7439-93-2	LITHIUM	-0.00219	0.01	B
7439-95-4	MAGNESIUM	0.0592	1	B
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.00581	0.2	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	-0.0128	0.05	B
7440-23-5	SODIUM	0.0971	1	B
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCB2

QC Type: Continuing Calibration

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 12:53:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.002	U
7440-42-8	BORON	-0.0093	0.1	B
7440-70-2	CALCIUM	0.101	1	B
7440-47-3	CHROMIUM	0.00074	0.01	B
7439-89-6	IRON	-0.00886	0.1	B
7439-93-2	LITHIUM	-0.0026	0.01	B
7439-95-4	MAGNESIUM	0.0147	1	B
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.00581	0.2	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	-0.0184	0.05	B
7440-23-5	SODIUM	0.0394	1	B
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCB3

QC Type: Continuing Calibration

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 1:14:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.002	U
7440-42-8	BORON	-0.00699	0.1	B
7440-70-2	CALCIUM	0.109	1	B
7440-47-3	CHROMIUM	0.000537	0.01	B
7439-89-6	IRON	-0.00525	0.1	B
7439-93-2	LITHIUM	-0.00246	0.01	B
7439-95-4	MAGNESIUM	0.0196	1	B
7440-02-0	NICKEL	0.000932	0.02	U
7723-14-0	PHOSPHORUS	0.00581	0.2	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	-0.0172	0.05	B
7440-23-5	SODIUM	0.0549	1	B
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCB4

QC Type: Continuing Calibration

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 1:39:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000176	0.002	U
7440-42-8	BORON	-0.00699	0.1	B
7440-70-2	CALCIUM	0.11	1	B
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	-0.00986	0.1	B
7439-93-2	LITHIUM	-0.00248	0.01	B
7439-95-4	MAGNESIUM	0.0193	1	B
7440-02-0	NICKEL	-0.00131	0.02	B
7723-14-0	PHOSPHORUS	-0.00607	0.2	B
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	-0.0173	0.05	B
7440-23-5	SODIUM	0.0483	1	B
7704-34-9	SULFUR	-0.0234	0.2	B
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCB5

QC Type: Continuing Calibration

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 2:01:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000223	0.002	B
7440-42-8	BORON	-0.00513	0.1	B
7440-70-2	CALCIUM	0.145	1	B
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.00494	0.1	U
7439-93-2	LITHIUM	-0.00219	0.01	B
7439-95-4	MAGNESIUM	0.0368	1	B
7440-02-0	NICKEL	-0.00107	0.02	B
7723-14-0	PHOSPHORUS	0.00581	0.2	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	-0.0174	0.05	B
7440-23-5	SODIUM	0.126	1	B
7704-34-9	SULFUR	0.0188	0.2	B
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCB6

QC Type: Continuing Calibration

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 2:24:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000281	0.002	B
7440-42-8	BORON	-0.00643	0.1	B
7440-70-2	CALCIUM	0.137	1	B
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	-0.00502	0.1	B
7439-93-2	LITHIUM	-0.00233	0.01	B
7439-95-4	MAGNESIUM	0.0311	1	B
7440-02-0	NICKEL	-0.00118	0.02	B
7723-14-0	PHOSPHORUS	-0.00921	0.2	B
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	-0.0196	0.05	B
7440-23-5	SODIUM	0.104	1	B
7704-34-9	SULFUR	0.0118	0.2	B
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCB7

QC Type: Continuing Calibration

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 2:43:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000443	0.002	B
7440-42-8	BORON	-0.0071	0.1	B
7440-70-2	CALCIUM	0.128	1	B
7440-47-3	CHROMIUM	0.000674	0.01	B
7439-89-6	IRON	0.00494	0.1	U
7439-93-2	LITHIUM	-0.00237	0.01	B
7439-95-4	MAGNESIUM	0.0319	1	B
7440-02-0	NICKEL	-0.00186	0.02	B
7723-14-0	PHOSPHORUS	0.00581	0.2	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	-0.0169	0.05	B
7440-23-5	SODIUM	0.0848	1	B
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCB8

QC Type: Continuing Calibration

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 3:02:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000713	0.002	B
7440-42-8	BORON	-0.00721	0.1	B
7440-70-2	CALCIUM	0.13	1	B
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.00494	0.1	U
7439-93-2	LITHIUM	-0.00247	0.01	B
7439-95-4	MAGNESIUM	0.0319	1	B
7440-02-0	NICKEL	-0.00173	0.02	B
7723-14-0	PHOSPHORUS	0.00581	0.2	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	-0.0187	0.05	B
7440-23-5	SODIUM	0.0821	1	B
7704-34-9	SULFUR	0.00902	0.2	U
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCB9

QC Type: Continuing Calibration

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Time Analyzed: 3:10:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7440-41-7	BERYLLIUM	0.000598	0.002	B
7440-42-8	BORON	-0.00727	0.1	B
7440-70-2	CALCIUM	0.142	1	B
7440-47-3	CHROMIUM	0.00051	0.01	U
7439-89-6	IRON	0.00494	0.1	U
7439-93-2	LITHIUM	-0.00247	0.01	B
7439-95-4	MAGNESIUM	0.0451	1	B
7440-02-0	NICKEL	-0.00204	0.02	B
7723-14-0	PHOSPHORUS	0.00581	0.2	U
7440-09-7	POTASSIUM	0.109	1	U
7440-21-3	SILICON	-0.0225	0.05	B
7440-23-5	SODIUM	0.0795	1	B
7704-34-9	SULFUR	-0.0129	0.2	B
7440-62-2	VANADIUM	0.000532	0.01	U

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

CRDL Standard

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CRI1

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	% Rec.
7440-41-7	BERYLLIUM	0.01	0.0113	0.002	113
7440-42-8	BORON	0.4	0.402	0.1	101
7440-70-2	CALCIUM	5	5.08	1	102
7440-47-3	CHROMIUM	0.02	0.022	0.01	110
7439-89-6	IRON	0.2	0.195	0.1	98
7439-93-2	LITHIUM	0.02	0.0146	0.01	73
7439-95-4	MAGNESIUM	5	5.07	1	101
7440-02-0	NICKEL	0.08	0.0829	0.02	104
7723-14-0	PHOSPHORUS	0.2	0.205	0.2	103
7440-09-7	POTASSIUM	5	4.08	1	82
7440-21-3	SILICON	0.1	0.0893	0.05	89
7440-23-5	SODIUM	5	4.1	1	82
7704-34-9	SULFUR	0.2	0.195	0.2	97
7440-62-2	VANADIUM	0.1	0.105	0.01	105

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

CRDL Standard

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CRI2

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	% Rec.
7440-41-7	BERYLLIUM	0.01	0.0123	0.002	123
7440-42-8	BORON	0.4	0.406	0.1	102
7440-70-2	CALCIUM	5	5.07	1	101
7440-47-3	CHROMIUM	0.02	0.0229	0.01	114
7439-89-6	IRON	0.2	0.191	0.1	96
7439-93-2	LITHIUM	0.02	0.014	0.01	70
7439-95-4	MAGNESIUM	5	5.03	1	101
7440-02-0	NICKEL	0.08	0.0881	0.02	110
7723-14-0	PHOSPHORUS	0.2	0.185	0.2	92
7440-09-7	POTASSIUM	5	4.07	1	81
7440-21-3	SILICON	0.1	0.0834	0.05	83
7440-23-5	SODIUM	5	4.17	1	83
7704-34-9	SULFUR	0.2	0.188	0.2	94
7440-62-2	VANADIUM	0.1	0.105	0.01	105

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

ICP Interference Check Sample

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA1	ICSAB1	ICSA1	ICSAB1	
7440-41-7	BERYLLIUM		0.5		0.44900	90
7440-42-8	BORON		1		0.946	95
7440-70-2	CALCIUM	250	250	264	255	102
7440-47-3	CHROMIUM		0.5		0.461	92
7439-89-6	IRON	100	100	112	108	108
7439-93-2	LITHIUM		1		1.10000	110
7439-95-4	MAGNESIUM	250	250	265	257	103
7440-02-0	NICKEL		1		0.91600	92
7723-14-0	PHOSPHORUS		1		0.992	99
7440-09-7	POTASSIUM					
7440-21-3	SILICON		1		0.87900	88
7440-23-5	SODIUM					
7704-34-9	SULFUR		1		0.988	99
7440-62-2	VANADIUM		0.5		0.46500	93

Data Package ID: *it1309217-1*

Metals by 200.7

Method EPA200.7

ICP Interference Check Sample

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Run ID: IT130925-2A4

Date Analyzed: 09/25/2013

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA2	ICSAB2	ICSA2	ICSAB2	
7440-41-7	BERYLLIUM		0.5		0.452	90
7440-42-8	BORON		1		0.965	97
7440-70-2	CALCIUM	250	250	259	254	102
7440-47-3	CHROMIUM		0.5		0.473	95
7439-89-6	IRON	100	100	107	105	105
7439-93-2	LITHIUM		1		1.07000	107
7439-95-4	MAGNESIUM	250	250	259	254	102
7440-02-0	NICKEL		1		0.974	97
7723-14-0	PHOSPHORUS		1		0.942	94
7440-09-7	POTASSIUM					
7440-21-3	SILICON		1		0.858	86
7440-23-5	SODIUM					
7704-34-9	SULFUR		1		0.946	95
7440-62-2	VANADIUM		0.5		0.463	93

Data Package ID: *it1309217-1*

Metals Linear Ranges

Lab Name: ALS Environmental -- FC
Work Order Number: 1309217
Client Name: Colorado Oil & Gas Conservation Commission
ClientProject ID: TBAL

Instrument ID: ICPTrace2
Active Date: 03/02/2010
Expiration Date: 05/31/2015

CASNO	Target Analyte	Concentration (ppm)
7429-90-5	ALUMINUM	500
7440-36-0	ANTIMONY	2
7440-38-2	ARSENIC	5
7440-39-3	BARIUM	10
7440-41-7	BERYLLIUM	1
7440-42-8	BORON	10
7440-43-9	CADMIUM	5
7440-70-2	CALCIUM	500
7440-47-3	CHROMIUM	10
7440-48-4	COBALT	5
7440-50-8	COPPER	10
7439-89-6	IRON	200
7439-92-1	LEAD	10
7439-93-2	LITHIUM	5
7439-95-4	MAGNESIUM	500
7439-96-5	MANGANESE	10
7439-98-7	MOLYBDENUM	10
7440-02-0	NICKEL	10
7723-14-0	PHOSPHORUS	50
7440-09-7	POTASSIUM	250
7782-49-2	SELENIUM	5
7440-21-3	SILICON	50
7440-22-4	SILVER	2
7440-23-5	SODIUM	150
7440-24-6	STRONTIUM	10
7704-34-9	SULFUR	50
7440-28-0	THALLIUM	5
7440-29-1	THORIUM	1
7440-61-1	URANIUM	50
7440-62-2	VANADIUM	5

Metals Linear Ranges

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Instrument ID: ICPTrace2

Active Date: 03/02/2010

Expiration Date: 05/31/2015

7440-66-6	ZINC	10

ICP Interelement Correction Factors

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Instrument ID: ICPTrace2

Active Date: 5/16/2013

Expiration Date: 5/16/2014

Analyte	Lamda (nm)	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Ni	Th
ALUMINUM																	
ANTIMONY									0.0033								
BERYLLIUM																	
CADMIUM				0.0068507													
CHROMIUM																	
COBALT					-0.001400												
COPPER																	
LEAD		0.000134										0.000086					
SELENIUM												-0.000148					
SILICON																	
SILVER																	
THALLIUM												-0.00069			-0.00137		
URANIUM												0.000764					
VANADIUM									-0.0014			-0.000244					

ICP Interelement Correction Factors

Lab Name: ALS Environmental -- FC
Work Order Number: 1309217
Client Name: Colorado Oil & Gas Conservation Commission
ClientProject ID: TBAL

Instrument ID: ICPTrace2
Active Date: 5/16/2013
Expiration Date: 5/16/2014

Analyte	Lamda (nm)	K	Se	Ag	Na	Tl	V	Zn	Sn	Ti	Mo	Li	Sr	B	Si	U	Zr
ALUMINUM							0.0125517				0.0033239					-0.0145	
ANTIMONY											-0.005606						
BERYLLIUM							0.00275									0.0001	
CADMIUM																	
CHROMIUM																0.0006733	
COBALT										0.002105							
COPPER																0.000281	
LEAD										-0.000532	-0.001621					0.0007168	
SELENIUM																-0.000588	
SILICON										0.0009037	-0.004063					0.000318	
SILVER																0.0006982	0.0038966
THALLIUM							0.0026359			0.00002						-0.000582	
URANIUM																	
VANADIUM																	

ICPTrace2 Run Log -- 9/25/2013

Instrument ID: ICPTrace2
File Name: 130925A.
AnalRunID: IT130925-2A1
CalibRefID: IT130925-2A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		RINSE	1	9/25/2013	11:14
		RINSE	1	9/25/2013	11:16
		MIXAHIGH	1	9/25/2013	11:41
		MIXBHIGH	1	9/25/2013	11:43
		MIXCHIGH	1	9/25/2013	11:45
		ICV	1	9/25/2013	11:54
		ICB	1	9/25/2013	11:58
		CRI1	1	9/25/2013	11:59
		ICSA1	1	9/25/2013	12:01
		ICSAB1	1	9/25/2013	12:02
		CCV1	1	9/25/2013	12:04
		CCB1	1	9/25/2013	12:06
		IP130924-1MB	1	9/25/2013	12:07
		IP130924-1LCS	1	9/25/2013	12:23
		IP130924-1LCSD	1	9/25/2013	12:25
		1309204-1	1	9/25/2013	12:26
		1309204-2	1	9/25/2013	12:28
		1309204-3	1	9/25/2013	12:29
		1309293-1	1	9/25/2013	12:31
		1309293-2	1	9/25/2013	12:32
		1309293-3	1	9/25/2013	12:34
		ZZZZZZ		9/25/2013	12:41
		CCV2	1	9/25/2013	12:43
		CCB2	1	9/25/2013	12:53
		EX130923-2MB	1	9/25/2013	12:55
- Na		EX130923-2LCS	1	9/25/2013	12:56
		1309247-3	1	9/25/2013	12:58
		1309247-3DUP	1	9/25/2013	12:59
		1309247-3SER	5	9/25/2013	13:01
- Na		1309247-3MS	1	9/25/2013	13:02
- Na		1309247-3MSD	1	9/25/2013	13:04
		1309247-4	1	9/25/2013	13:06
		F130923-1MB	1	9/25/2013	13:07
		F130923-1LCS	1	9/25/2013	13:10
		CCV3	1	9/25/2013	13:12

Data Package ID: IT1309217-1

ICPTrace2 Run Log -- 9/25/2013

Instrument ID: ICPTrace2
File Name: 130925A.
AnalRunID: IT130925-2A1
CalibRefID: IT130925-2A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		CCB3	1	9/25/2013	13:14
		F130923-1LCSD	1	9/25/2013	13:16
		1309158-1	1	9/25/2013	13:17
	752778 Nelson	1309217-2	1	9/25/2013	13:19
		1309218-2	1	9/25/2013	13:21
		1309218-2SER	5	9/25/2013	13:22
		1309218-2A	1	9/25/2013	13:24
		1309218-8	1	9/25/2013	13:25
- Al,Mo,Pb,Sb,Si		1309218-12	1	9/25/2013	13:27
		1309258-1	1	9/25/2013	13:28
		1309258-1DUP	1	9/25/2013	13:30
		CCV4	1	9/25/2013	13:33
		CCB4	1	9/25/2013	13:39
		1309258-1SER	5	9/25/2013	13:41
		1309258-1MS	1	9/25/2013	13:43
		1309258-1MSD	1	9/25/2013	13:44
- S		1309279-1	1	9/25/2013	13:47
		1309279-2	1	9/25/2013	13:48
		1309304-1	1	9/25/2013	13:50
		IP130924-4MB	1	9/25/2013	13:54
		IP130924-4LCS	1	9/25/2013	13:55
- Na,S,Sr		1309329-1	1	9/25/2013	13:57
- Na,S,Sr		1309329-1DUP	1	9/25/2013	13:58
		CCV5	1	9/25/2013	14:00
		CCB5	1	9/25/2013	14:01
- Na,S,Sr		1309329-1SER	5	9/25/2013	14:03
- Na,S,Sr		1309329-1MS	1	9/25/2013	14:04
- Na,S,Sr		1309329-1MSD	1	9/25/2013	14:06
- Na,S,Sr		1309329-2	1	9/25/2013	14:08
- Na,S,Sr		1309329-3	1	9/25/2013	14:09
- Na,S,Sr		1309329-4	1	9/25/2013	14:11
		1309329-5	1	9/25/2013	14:12
		1309329-6	1	9/25/2013	14:14
- S		1309313-9	1	9/25/2013	14:15
- S		1309313-10	1	9/25/2013	14:17

Data Package ID: IT1309217-1

ICPTrace2 Run Log -- 9/25/2013

Instrument ID: ICPTrace2
File Name: 130925A.
AnalRunID: IT130925-2A1
CalibRefID: IT130925-2A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		CCV6	1	9/25/2013	14:19
		CCB6	1	9/25/2013	14:24
- S		1309313-11	1	9/25/2013	14:26
- S		1309313-12	1	9/25/2013	14:27
		1309315-4	1	9/25/2013	14:29
		1309315-5	1	9/25/2013	14:30
		1309327-1	1	9/25/2013	14:32
		1309327-2	1	9/25/2013	14:33
- S		1309327-6	1	9/25/2013	14:35
- S		1309327-7	1	9/25/2013	14:36
		1309327-10	1	9/25/2013	14:38
		1309327-11	1	9/25/2013	14:39
		CCV7	1	9/25/2013	14:41
		CCB7	1	9/25/2013	14:43
- S		1309327-12	1	9/25/2013	14:44
- S		1309327-13	1	9/25/2013	14:46
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr		1309329-1	50	9/25/2013	14:48
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr		1309329-1DUP	50	9/25/2013	14:49
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr		1309329-1SER	250	9/25/2013	14:51
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr		1309329-1MS	50	9/25/2013	14:52
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr		1309329-1MSD	50	9/25/2013	14:54
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr		1309329-2	50	9/25/2013	14:55
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr		1309329-3	50	9/25/2013	14:57
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr		1309329-4	50	9/25/2013	14:59
		CCV8	1	9/25/2013	15:00
		CCB8	1	9/25/2013	15:02
		CRI2	1	9/25/2013	15:03
		ICSA2	1	9/25/2013	15:05
		ICSAB2	1	9/25/2013	15:07
		CCV9	1	9/25/2013	15:08
		CCB9	1	9/25/2013	15:10

Data Package ID: IT1309217-1

Metals by 200.8

Method EPA200.8 Revision 5.4

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: IP130920-1MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 20-Sep-13
Date Analyzed: 21-Sep-13

Prep Batch: IP130920-1
QCBatchID: IP130920-1-6
Run ID: IM130921-10A4
Cleanup: NONE
Basis: N/A
File Name: 019SMPL_

Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	RptLimit LOD/LOQ	MDL	Result Qualifier	EPA Qualifier
7429-90-5	ALUMINUM	10	0.015	0.05	0.015	U	
7440-36-0	ANTIMONY	10	0.0001	0.0003	0.0001	U	
7440-38-2	ARSENIC	10	0.0006	0.002	0.0006	U	
7440-39-3	BARIUM	10	0.0003	0.001	0.0003	U	
7440-43-9	CADMIUM	10	0.00012	0.0003	0.00012	U	
7440-45-1	CERIUM	10	0.00009	0.0003	0.00009	U	
7440-48-4	COBALT	10	0.0003	0.001	0.0003	U	
7440-50-8	COPPER	10	0.003	0.01	0.003	U	
7439-91-0	LANTHANUM	10	0.00009	0.0003	0.00009	U	
7439-92-1	LEAD	10	0.00015	0.0005	0.00015	U	
7439-96-5	MANGANESE	10	-0.00072	0.002	0.0006	B	
7439-98-7	MOLYBDENUM	10	0.0005	0.001	0.0005	U	
7440-00-8	NEODYMIUM	10	0.00009	0.0003	0.00009	U	
7440-10-0	PRASEODYMIUM	10	0.00009	0.0003	0.00009	U	
7782-49-2	SELENIUM	10	0.0005	0.001	0.0005	U	
7440-22-4	SILVER	10	0.00003	0.0001	0.00003	U	
7440-23-5	SODIUM	10	0.3	1	0.3	U	
7440-24-6	STRONTIUM	10	-0.00041	0.001	0.0003	B	
7440-28-0	THALLIUM	10	0.00006	0.0002	0.00006	U	
7440-29-1	THORIUM	10	0.00006	0.0002	0.00006	U	
7440-61-1	URANIUM	10	0.00003	0.0001	0.00003	U	
7440-65-5	YTTRIUM	10	0.00009	0.0003	0.00009	U	
7440-66-6	ZINC	10	0.006	0.02	0.006	U	

Data Package ID: *im1309217-1*

Metals by 200.8

Method EPA200.8 Revision 5.4

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: IM130920-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 09/20/2013
Date Analyzed: 09/21/2013
Prep Method: EPA200.22.8

Prep Batch: IP130920-1
QCBatchID: IP130920-1-6
Run ID: IM130921-10A4
Cleanup: NONE
Basis: N/A
File Name: 015SMPL_

Sample Aliquot: 50 ml
Final Volume: 50 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7429-90-5	ALUMINUM	5	4.88	0.05		98	85 - 115%
7440-36-0	ANTIMONY	0.03	0.032	0.0003		107	85 - 115%
7440-38-2	ARSENIC	0.1	0.0995	0.002		100	85 - 115%
7440-39-3	BARIUM	0.1	0.103	0.001		103	85 - 115%
7440-43-9	CADMIUM	0.03	0.0314	0.0003		105	85 - 115%
7440-45-1	CERIUM	0.03	0.0318	0.0003		106	85 - 115%
7440-48-4	COBALT	0.1	0.0994	0.001		99	85 - 115%
7440-50-8	COPPER	1	1.02	0.01		102	85 - 115%
7439-91-0	LANTHANUM	0.03	0.0294	0.0003		98	85 - 115%
7439-92-1	LEAD	0.05	0.0548	0.0005		110	85 - 115%
7439-96-5	MANGANESE	0.2	0.196	0.002		98	85 - 115%
7439-98-7	MOLYBDENUM	0.1	0.0956	0.001		96	85 - 115%
7440-00-8	NEODYMIUM	0.03	0.0297	0.0003		99	85 - 115%
7440-10-0	PRASEODYMIUM	0.03	0.0312	0.0003		104	85 - 115%
7782-49-2	SELENIUM	0.1	0.1	0.001		100	85 - 115%
7440-22-4	SILVER	0.01	0.0108	0.0001		108	85 - 115%
7440-23-5	SODIUM	10	10.3	1		103	85 - 115%
7440-24-6	STRONTIUM	0.1	0.1	0.001		100	85 - 115%
7440-28-0	THALLIUM	0.002	0.00219	0.0002		110	85 - 115%
7440-29-1	THORIUM	0.01	0.0102	0.0002		103	85 - 115%
7440-61-1	URANIUM	0.01	0.0104	0.0001		104	85 - 115%
7440-65-5	YTTRIUM	0.03	0.0305	0.0003		102	85 - 115%
7440-66-6	ZINC	2	1.97	0.02		98	85 - 115%

Data Package ID: *im1309217-1*

Prep Batch ID: IP130920-1

Start Date: 09/20/13
Start Time: 9:00
Prep Analyst: Nathan A. Quatier

End Date: 09/20/13
End Time: 18:00

Concentration Method: NONE
Extract Method: EPA200.22.8
Initial Volume Units: ml
Final Volume Units: ml

Batch Created By: naq
Date Created: 09/20/13
Time Created: 11:53
Validated By: bas
Date Validated: 09/20/13
Time Validated: 13:06

Comments:

QC Batch ID: IP130920-1-6

Lab ID	QC Type	Field ID	Matrix	Date Collected	Initial Wt/Vol	Final Wt/Vol	Cleanup Method	Cleanup DF	Order Number
IP130920-1	MB	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309198
IM130920-1	LCS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309198
1309198-1	MS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309198
1309198-11	MS	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309198
1309198-1	MSD	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309198
1309198-11	MSD	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309198
1309198-1	DUP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309198
1309198-11	DUP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309198
1309158-1	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309158
1309198-1	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309198
1309198-11	SMP	XXXXXX	WATER	XXXXXX	50	50	NONE	1	1309198
1309217-2	SMP	752778 Nelson	WATER	9/16/2013	50	50	NONE	1	1309217

QC Types

CAR	Carrier reference sample	DUP	Laboratory Duplicate
LCS	Laboratory Control Sample	LCSD	Laboratory Control Sample Duplicat
MB	Method Blank	MS	Laboratory Matrix Spike
MSD	Laboratory Matrix Spike Duplicate	REP	Sample replicate
RVS	Reporting Level Verification Standar	SMP	Field Sample
SYS	Sample Yield Spike		

Metals by 200.8

Method EPA200.8

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: ICV

QC Type: Initial Calibration

File Name: 008SMPL_

Run ID: IM130921-10A4

Date Analyzed: 09/21/2013

Time Analyzed: 12:00

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	1	1.01	0.005		101	90 - 110%
7440-36-0	ANTIMONY	0.006	0.00597	0.00003		100	90 - 110%
7440-38-2	ARSENIC	0.02	0.0197	0.0002		98	90 - 110%
7440-39-3	BARIUM	0.02	0.0201	0.0001		101	90 - 110%
7440-43-9	CADMIUM	0.006	0.00605	0.00003		101	90 - 110%
7440-45-1	CERIUM	0.006	0.00607	0.00003		101	90 - 110%
7440-48-4	COBALT	0.02	0.0200	0.0001		100	90 - 110%
7440-50-8	COPPER	0.2	0.205	0.001		103	90 - 110%
7439-91-0	LANTHANUM	0.006	0.00602	0.00003		100	90 - 110%
7439-92-1	LEAD	0.01	0.00990	0.00005		99	90 - 110%
7439-96-5	MANGANESE	0.04	0.0391	0.0002		98	90 - 110%
7439-98-7	MOLYBDENUM	0.02	0.0195	0.0001		97	90 - 110%
7440-00-8	NEODYMIUM	0.006	0.00615	0.00003		103	90 - 110%
7440-10-0	PRASEODYMIUM	0.006	0.00605	0.00003		101	90 - 110%
7782-49-2	SELENIUM	0.02	0.0205	0.0001		102	90 - 110%
7440-22-4	SILVER	0.002	0.00207	0.00001		104	90 - 110%
7440-23-5	SODIUM	20	20.4	0.1		102	90 - 110%
7440-24-6	STRONTIUM	0.02	0.0203	0.0001		101	90 - 110%
7440-28-0	THALLIUM	0.0004	0.000399	0.00002		100	90 - 110%
7440-29-1	THORIUM	0.002	0.00187	0.00002		94	90 - 110%
7440-61-1	URANIUM	0.002	0.00192	0.00001		96	90 - 110%
7440-65-5	YTTRIUM	0.006	0.00607	0.00003		101	90 - 110%
7440-66-6	ZINC	0.4	0.402	0.002		100	90 - 110%

Data Package ID: *im1309217-1*

Metals by 200.8

Method EPA200.8

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCV1

QC Type: Continuing Calibration

File Name: 017SMPL_

Run ID: IM130921-10A4

Date Analyzed: 09/21/2013

Time Analyzed: 12:50

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.507	0.005		101	90 - 110%
7440-36-0	ANTIMONY	0.003	0.00305	0.00003		102	90 - 110%
7440-38-2	ARSENIC	0.01	0.00992	0.0002		99	90 - 110%
7440-39-3	BARIUM	0.01	0.0106	0.0001		106	90 - 110%
7440-43-9	CADMIUM	0.003	0.00301	0.00003		100	90 - 110%
7440-45-1	CERIUM	0.003	0.00303	0.00003		101	90 - 110%
7440-48-4	COBALT	0.01	0.00990	0.0001		99	90 - 110%
7440-50-8	COPPER	0.1	0.103	0.001		103	90 - 110%
7439-91-0	LANTHANUM	0.003	0.00307	0.00003		102	90 - 110%
7439-92-1	LEAD	0.005	0.00496	0.00005		99	90 - 110%
7439-96-5	MANGANESE	0.02	0.0195	0.0002		98	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00968	0.0001		97	90 - 110%
7440-00-8	NEODYMIUM	0.003	0.00296	0.00003		99	90 - 110%
7440-10-0	PRASEODYMIUM	0.003	0.00304	0.00003		101	90 - 110%
7782-49-2	SELENIUM	0.01	0.0104	0.0001		104	90 - 110%
7440-22-4	SILVER	0.001	0.00105	0.00001		105	90 - 110%
7440-23-5	SODIUM	10	10.2	0.1		102	90 - 110%
7440-24-6	STRONTIUM	0.01	0.00924	0.0001		92	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000199	0.00002		99	90 - 110%
7440-29-1	THORIUM	0.001	0.000930	0.00002		93	90 - 110%
7440-61-1	URANIUM	0.001	0.000966	0.00001		97	90 - 110%
7440-65-5	YTTRIUM	0.003	0.00305	0.00003		102	90 - 110%
7440-66-6	ZINC	0.2	0.202	0.002		101	90 - 110%

Data Package ID: *im1309217-1*

Metals by 200.8

Method EPA200.8

Calibration Verifications

Lab Name: ALS Environmental -- FC

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCV2

QC Type: Continuing Calibration

File Name: 027SMPL_

Run ID: IM130921-10A4

Date Analyzed: 09/21/2013

Time Analyzed: 13:25

Result Units: MG/L

CASNO	Target Analyte	Spike Added	Result	Reporting Limit	Result Qualifier	% Rec.	Control Limits
7429-90-5	ALUMINUM	0.5	0.512	0.005		102	90 - 110%
7440-36-0	ANTIMONY	0.003	0.00313	0.00003		104	90 - 110%
7440-38-2	ARSENIC	0.01	0.00959	0.0002		96	90 - 110%
7440-39-3	BARIUM	0.01	0.0104	0.0001		104	90 - 110%
7440-43-9	CADMIUM	0.003	0.00309	0.00003		103	90 - 110%
7440-45-1	CERIUM	0.003	0.00304	0.00003		101	90 - 110%
7440-48-4	COBALT	0.01	0.00979	0.0001		98	90 - 110%
7440-50-8	COPPER	0.1	0.101	0.001		101	90 - 110%
7439-91-0	LANTHANUM	0.003	0.00307	0.00003		102	90 - 110%
7439-92-1	LEAD	0.005	0.00493	0.00005		99	90 - 110%
7439-96-5	MANGANESE	0.02	0.0191	0.0002		95	90 - 110%
7439-98-7	MOLYBDENUM	0.01	0.00962	0.0001		96	90 - 110%
7440-00-8	NEODYMIUM	0.003	0.00297	0.00003		99	90 - 110%
7440-10-0	PRASEODYMIUM	0.003	0.00300	0.00003		100	90 - 110%
7782-49-2	SELENIUM	0.01	0.00988	0.0001		99	90 - 110%
7440-22-4	SILVER	0.001	0.00107	0.00001		107	90 - 110%
7440-23-5	SODIUM	10	10.0	0.1		100	90 - 110%
7440-24-6	STRONTIUM	0.01	0.0102	0.0001		102	90 - 110%
7440-28-0	THALLIUM	0.0002	0.000197	0.00002		98	90 - 110%
7440-29-1	THORIUM	0.001	0.000954	0.00002		95	90 - 110%
7440-61-1	URANIUM	0.001	0.000983	0.00001		98	90 - 110%
7440-65-5	YTTRIUM	0.003	0.00304	0.00003		101	90 - 110%
7440-66-6	ZINC	0.2	0.202	0.002		101	90 - 110%

Data Package ID: *im1309217-1*

Metals by 200.8

Method EPA200.8

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: ICB

QC Type: Initial Calibration

Run ID: IM130921-10A4

Date Analyzed: 09/21/2013

Time Analyzed: 12:07:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000694	0.005	U
7440-36-0	ANTIMONY	0.0000117	0.00003	U
7440-38-2	ARSENIC	-0.000017	0.0002	B
7440-39-3	BARIUM	0.000023	0.0001	B
7440-43-9	CADMIUM	0.0000115	0.00003	U
7440-45-1	CERIUM	0.000006	0.00003	B
7440-48-4	COBALT	0.000014	0.0001	B
7440-50-8	COPPER	0.000147	0.001	B
7439-91-0	LANTHANUM	0.000007	0.00003	B
7439-92-1	LEAD	6.82E-06	0.00005	U
7439-96-5	MANGANESE	-0.000043	0.0002	B
7439-98-7	MOLYBDENUM	0.0000321	0.0001	U
7440-00-8	NEODYMIUM	6.46E-06	0.00003	U
7440-10-0	PRASEODYMIUM	3.97E-06	0.00003	U
7782-49-2	SELENIUM	0.0000325	0.0001	U
7440-22-4	SILVER	0.000002	0.00001	B
7440-23-5	SODIUM	0.00953	0.1	U
7440-24-6	STRONTIUM	-0.000032	0.0001	B
7440-28-0	THALLIUM	0.000003	0.00002	B
7440-29-1	THORIUM	3.46E-06	0.00002	U
7440-61-1	URANIUM	2.92E-06	0.00001	U
7440-65-5	YTTRIUM	-0.000003	0.00003	B
7440-66-6	ZINC	0.000191	0.002	U

Data Package ID: *im1309217-1*

Metals by 200.8

Method EPA200.8

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCB1

QC Type: Continuing Calibration

Run ID: IM130921-10A4

Date Analyzed: 09/21/2013

Time Analyzed: 12:53:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000694	0.005	U
7440-36-0	ANTIMONY	0.0000117	0.00003	U
7440-38-2	ARSENIC	0.0000148	0.0002	U
7440-39-3	BARIUM	0.000038	0.0001	B
7440-43-9	CADMIUM	0.0000115	0.00003	U
7440-45-1	CERIUM	0.000006	0.00003	B
7440-48-4	COBALT	9.95E-06	0.0001	U
7440-50-8	COPPER	0.000125	0.001	U
7439-91-0	LANTHANUM	0.000006	0.00003	B
7439-92-1	LEAD	-0.000008	0.00005	B
7439-96-5	MANGANESE	-0.000037	0.0002	B
7439-98-7	MOLYBDENUM	0.0000321	0.0001	U
7440-00-8	NEODYMIUM	6.46E-06	0.00003	U
7440-10-0	PRASEODYMIUM	3.97E-06	0.00003	U
7782-49-2	SELENIUM	0.0000325	0.0001	U
7440-22-4	SILVER	0.000002	0.00001	B
7440-23-5	SODIUM	0.00953	0.1	U
7440-24-6	STRONTIUM	-0.000137	0.0001	
7440-28-0	THALLIUM	0.000006	0.00002	B
7440-29-1	THORIUM	3.46E-06	0.00002	U
7440-61-1	URANIUM	2.92E-06	0.00001	U
7440-65-5	YTTRIUM	-0.000003	0.00003	B
7440-66-6	ZINC	0.000191	0.002	U

Data Package ID: *im1309217-1*

Metals by 200.8

Method EPA200.8

Calibration Blanks

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Lab ID: CCB2

QC Type: Continuing Calibration

Run ID: IM130921-10A4

Date Analyzed: 09/21/2013

Time Analyzed: 1:28:00 PM

Result Units: MG/L

CASNO	Target Analyte	Result	Reporting Limit	Result Qualifier
7429-90-5	ALUMINUM	0.000694	0.005	U
7440-36-0	ANTIMONY	0.0000117	0.00003	U
7440-38-2	ARSENIC	0.0000148	0.0002	U
7440-39-3	BARIUM	0.000037	0.0001	B
7440-43-9	CADMIUM	0.0000115	0.00003	U
7440-45-1	CERIUM	3.17E-06	0.00003	U
7440-48-4	COBALT	9.95E-06	0.0001	U
7440-50-8	COPPER	0.000125	0.001	U
7439-91-0	LANTHANUM	3.17E-06	0.00003	U
7439-92-1	LEAD	-0.000011	0.00005	B
7439-96-5	MANGANESE	-0.000083	0.0002	B
7439-98-7	MOLYBDENUM	0.0000321	0.0001	U
7440-00-8	NEODYMIUM	6.46E-06	0.00003	U
7440-10-0	PRASEODYMIUM	3.97E-06	0.00003	U
7782-49-2	SELENIUM	0.000053	0.0001	B
7440-22-4	SILVER	0.000002	0.00001	B
7440-23-5	SODIUM	0.00953	0.1	U
7440-24-6	STRONTIUM	-0.000086	0.0001	B
7440-28-0	THALLIUM	0.000007	0.00002	B
7440-29-1	THORIUM	0.000004	0.00002	B
7440-61-1	URANIUM	2.92E-06	0.00001	U
7440-65-5	YTTRIUM	-0.000003	0.00003	B
7440-66-6	ZINC	0.000191	0.002	U

Data Package ID: *im1309217-1*

Metals by 200.8

Method EPA200.8

ICP Interference Check Sample

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Run ID: IM130921-10A4

Date Analyzed: 09/21/2013

Result Units: MG/L

CASNO	Target Analyte	Spike Added		Results		% Rec.
		ICSA1	ICSAB1	ICSA1	ICSAB1	
7429-90-5	ALUMINUM	10	10.5	9.25	9.77000	93
7440-36-0	ANTIMONY		0.003		0.00319	106
7440-38-2	ARSENIC		0.01		0.01	100
7440-39-3	BARIUM		0.01		0.00962	96
7440-43-9	CADMIUM		0.003		0.00313	104
7440-45-1	CERIUM		0.003		0.0032	107
7440-48-4	COBALT		0.01		0.00995	99
7440-50-8	COPPER		0.1		0.102	102
7439-91-0	LANTHANUM		0.003		0.00316	105
7439-92-1	LEAD		0.005		0.00508	102
7439-96-5	MANGANESE		0.02		0.02170	108
7439-98-7	MOLYBDENUM	0.2	0.21	0.18400	0.19	90
7440-00-8	NEODYMIUM		0.003		0.00308	103
7440-10-0	PRASEODYMIUM		0.003		0.00310	103
7782-49-2	SELENIUM		0.01		0.01040	104
7440-22-4	SILVER		0.001		0.00107	107
7440-23-5	SODIUM	25	35	25.5	34.5	98
7440-24-6	STRONTIUM		0.01		0.00994	99
7440-28-0	THALLIUM		0.0002		0.0002	98
7440-29-1	THORIUM		0.001		0.00101	101
7440-61-1	URANIUM		0.001		0.00102	101
7440-65-5	YTTRIUM		0.003		0.00304	101
7440-66-6	ZINC		0.2		0.198	99

Data Package ID: *im1309217-1*

Metals Linear Ranges

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1309217
Client Name: Colorado Oil & Gas Conservation Commission
ClientProject ID: TBAL

Instrument ID: ICPMS2
Active Date: 04/01/2010
Expiration Date: 04/01/2015

CASNO	Target Analyte	Concentration (ppm)
7429-90-5	ALUMINUM	50
7440-36-0	ANTIMONY	0.3
7440-38-2	ARSENIC	1
7440-39-3	BARIUM	1
7440-41-7	BERYLLIUM	0.5
7440-42-8	BORON	10
7440-43-9	CADMIUM	0.3
7440-70-2	CALCIUM	500
7440-45-1	CERIUM	0.3
7440-47-3	CHROMIUM	5
7440-48-4	COBALT	1
7440-50-8	COPPER	10
7439-89-6	IRON	50
7439-91-0	LANTHANUM	0.3
7439-92-1	LEAD	0.5
7439-93-2	LITHIUM	10
7439-95-4	MAGNESIUM	100
7439-96-5	MANGANESE	2
7439-98-7	MOLYBDENUM	1
7440-00-8	NEODYMIUM	0.3
7440-02-0	NICKEL	5
7440-09-7	POTASSIUM	500
7440-10-0	PRASEODYMIUM	0.3
7782-49-2	SELENIUM	1
7440-22-4	SILVER	0.1
7440-23-5	SODIUM	1000
7440-24-6	STRONTIUM	1
7440-28-0	THALLIUM	0.02
7440-29-1	THORIUM	0.1
7440-61-1	URANIUM	0.1

Metals Linear Ranges

Lab Name: **ALS Environmental -- FC**

Work Order Number: 1309217

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: TBAL

Instrument ID: ICPMS2

Active Date: 04/01/2010

Expiration Date: 04/01/2015

7440-62-2	VANADIUM	1
7440-65-5	YTTRIUM	0.3
7440-66-6	ZINC	20

ICPMS2 Run Log -- 9/21/2013

Instrument ID: ICPMS2
File Name: 003CALB_
AnalRunID: IM130921-10A1
CalibRefID: IM130921-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		blank	1	9/21/2013	11:38
		H/1000	1	9/21/2013	11:41
		H/100	1	9/21/2013	11:45
		H/10	1	9/21/2013	11:48
		HIGH	1	9/21/2013	11:52
		ICV	1	9/21/2013	12:00
		ICB	1	9/21/2013	12:07
		ZZZZZZ	1	9/21/2013	12:12
		ICSA1	1	9/21/2013	12:15
		ICSAB1	1	9/21/2013	12:19
		ZZZZZZ	1	9/21/2013	12:26
		IP130920-2MB	10	9/21/2013	12:39
		IP130920-2LCS	10	9/21/2013	12:43
- Ce,La,Nd,Pr		1308501-1	10	9/21/2013	12:46
		CCV1	1	9/21/2013	12:50
		CCB1	1	9/21/2013	12:53
		IP130920-1MB	10	9/21/2013	12:57
		IM130920-1LCS	10	9/21/2013	13:00
		1309158-1	10	9/21/2013	13:04
	752778 Nelson	1309217-2	10	9/21/2013	13:07
		1309027-1	10	9/21/2013	13:11
		1309234-1	10	9/21/2013	13:14
		1309196-1	10	9/21/2013	13:18
		1309236-1	10	9/21/2013	13:21
		CCV2	1	9/21/2013	13:25
		CCB2	1	9/21/2013	13:28
		EX130919-20MB	10	9/21/2013	13:44
		EX130919-20LCS	10	9/21/2013	13:47
		1309185-4	10	9/21/2013	13:50
		1309185-4DUP	10	9/21/2013	13:53
		1309185-4SER	50	9/21/2013	13:56
		1309185-4MS	10	9/21/2013	13:59
		1309185-4MSD	10	9/21/2013	14:02
		CCV3	1	9/21/2013	14:05
		CCB3	1	9/21/2013	14:08

Data Package ID: IM1309217-1

ICPMS2 Run Log -- 9/21/2013

Instrument ID: ICPMS2
File Name: 001SMPL.
AnalRunID: IM130921-10A1
CalibRefID: IM130921-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		CCV4	1	9/21/2013	14:24
		CCB4	1	9/21/2013	14:27
		1309242-1	50	9/21/2013	14:29
		1309242-2	50	9/21/2013	14:31
		1309242-3	50	9/21/2013	14:33
		1309242-4	50	9/21/2013	14:35
		1309242-5	50	9/21/2013	14:38
		1309242-6	50	9/21/2013	14:40
		1309242-7	50	9/21/2013	14:42
		1309242-8	50	9/21/2013	14:44
		ZZZZZZ	1	9/21/2013	14:48
		ZZZZZZ	1	9/21/2013	14:52
		CCV5	1	9/21/2013	14:56
		CCB5	1	9/21/2013	14:59
		CCV6	1	9/21/2013	15:02
		CCB6	1	9/21/2013	15:04
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1308513-8	2	9/21/2013	15:06
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1308513-13	5	9/21/2013	15:08
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1308513-19	2	9/21/2013	15:10
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1308513-33	5	9/21/2013	15:12
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1308513-34	5	9/21/2013	15:15
Ag,Al,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,La,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1308513-35	5	9/21/2013	15:17
		ZZZZZZ	1	9/21/2013	15:19
		ZZZZZZ	1	9/21/2013	15:21
		ZZZZZZ	1	9/21/2013	15:23
		ZZZZZZ	1	9/21/2013	15:25
		CCV7	1	9/21/2013	15:28
		CCB7	1	9/21/2013	15:30
		ZZZZZZ	1	9/21/2013	15:32
		ZZZZZZ	1	9/21/2013	15:36
		ZZZZZZ	1	9/21/2013	15:40
		ZZZZZZ	1	9/21/2013	15:44
		ZZZZZZ	1	9/21/2013	15:47
		ZZZZZZ	1	9/21/2013	15:51
		CCV8	1	9/21/2013	15:55

Data Package ID: IM1309217-1

ICPMS2 Run Log -- 9/21/2013

Instrument ID: ICPMS2
File Name: 036SMPL.
AnalRunID: IM130921-10A1
CalibRefID: IM130921-10A1

Comment	Field ID	Lab ID	DF	Date Analyzed	Time Analyzed
		CCB8	1	9/21/2013	15:59
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1309035-1	10000	9/21/2013	16:01
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1309035-2	10000	9/21/2013	16:03
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1309035-3	10000	9/21/2013	16:06
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1309035-4	10000	9/21/2013	16:08
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1309035-5	10000	9/21/2013	16:10
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1309035-6	10000	9/21/2013	16:12
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1309035-7	10000	9/21/2013	16:14
Ag,Al,As,B,Ba,Be,Ca,Cd,Ce,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Nd,Ni,Pb,Pr,Sb,Se,Sn,Sr,Th,Ti,Tl,U,V,Y,Zn		1309035-8	10000	9/21/2013	16:16
		ZZZZZZ	1	9/21/2013	16:18
		ZZZZZZ	1	9/21/2013	16:21
		CCV9	1	9/21/2013	16:24
		CCB9	1	9/21/2013	16:27

Data Package ID: IM1309217-1

Raw Data

HEADER INFORMATION FOR ANALYTICAL SEQUENCE 130925A
Instrument: Trace2
Analyst: Steve Workman
Analysis Date: 09/25/2013
STANDARD SOLUTION CODES

Stock A (ST130422-8) Exp. 4-22-2014

Element	ug/ml
Al, Ca, Mg	1000
K	500
Na	300
Fe	400
Li	20

Standard	Dilution	Procedure
A1	1/2 of Stock A	5ml of Stock A to 10ml final volume.
A2	1/2.5 of Stock A1	2ml of Stock A1 to a 5ml final volume.
A3	1/5 of Stock A1	1ml of Stock A1 to a 5ml final volume.
A4	1/10 of A1	1ml of Standard A1 up to a 10ml final volume.
A5	1/10 of A4	1ml of Standard A4 up to a 10ml final volume.

Stock B (ST110316-5) Exp. 2-28-15

Element	ug/ml
P, Si	100
B, Ba, Cr, Cu, Mn, Mo, Ni, Pb, Sn, Sr, Ti ,Zn	20
As, Cd, Co, Se, Tl, V	10
Sb	4
Be	2

Stock Ag- 1000 ug/ml (ST100407-4) Exp. 2-28-15
Stock Th – 1000 ug/ml (ST100407-5) Exp. 2-28-15

The following dilutions of Stock Ag and Stock Th are made to provide the daily calibration Standards.

Standard	Dilution	Procedure
B1	1/2 of Stock B 1/500 Ag and 1/500 Th	5ml of Stock B, 0.02ml of Stock Ag and 0.02ml of Stock Th up to a 10ml final volume.
B2	1/10 of B1	1.0ml of Standard B1 up to a 10ml final volume.
B3	1/10 of B2	1.0ml of Standard B2 up to a 10ml final volume.

Stock C (ST120813-5) Exp. 6/30/15

Element	ug/ml
S, U	100
Bi, Zr	10

Standard	Dilution	Procedure
C1	1/2 of Stock C	5ml of Stock C up to a 10ml final volume.
C2	1/10 of C1	1.0ml of Standard C1 up to a 10ml final volume.
C3	1/10 of C2	1.0ml of Standard C2 up to a 10ml final volume.

RL STD (Reporting Limit Standard) Intermediate.
(ST100301-54) Exp. 2-28-15

Element	ug/ml
K, Na	500
Ca, Mg	200
Al, U	100
B, Fe, P, S, Si	50
Li, Mo, Sn, Sr, Ti	10
Sb	8
Ni, As, Bi, Se, Tl, Zn, Zr	5
Pb	3
Ag, Ba, Co, Cr, Cu, Mn, V, Th	2
Be, Cd	1

RL STD (working standard) made daily by diluting the intermediate above 1000 fold. This working standard has concentration levels at the normal ALS-FC reporting limits for all elements except Ca, Mg and Na, K which are at 0.2ppm and 0.5ppm; this is below the normal ALS-FC reporting limit.

RL2 (working standard) made daily by diluting the intermediate above 333 fold.

Blank Solution

Double D.I. water, 3% HNO_3 and 5%HCl
Used for Std. Blank, ICB and CCB

CCV (ST120621-3) Exp. 12-18-13

Element	ug/ml
Al, Ca, Mg, K, Na	50
Fe	20
U, P, S, Si	5
B, Ba, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sn, Zn, Zr	1
As, Be, Bi, Cd, Co, Li, Sb, Sr, Ti, Tl, V	0.5
Ag, Th	0.2

ICV (ST120621-3) Exp. 12-18-13
Prepared daily by diluting the CCV (described above) ½.
The 1/2 dilution is made by diluting 5ml of the CCV to a 10ml final volume.
The resulting concentrations are:

Element	ug/ml
Al, Ca, Mg, K, Na	25
Fe	10
U, P, S, Si	2.5
B, Ba, Cr, Cu, Mn, Mo, Ni, Pb, Se, Sn, Zn, Zr	0.5
As, Be, Bi, Cd, Co, Li, Sb, Sr, Ti, Tl, V	0.25
Ag, Th	0.1

CRI (ST120621-6) Exp. 12-18-13
Made By diluting
1.0ml of CRI Stock (ST120621-5) Exp. 12-18-13
to a 100ml final volume.

Element	ug/ml
Ca, Mg, K, Na	5.0
Al, B, Ba	0.4
Fe, U, P, S	0.2
Sb	0.12
Co, Si,, Sn, V, Th	0.1
Ni	0.08
Cu, Bi, Zr	0.05
Zn	0.04
Mn	0.03
Ag, Cr, Li, Mo, Sr, Ti, Tl	0.02
Be, Cd, As, Se,	0.01
Pb	0.006

ICSA (ST120621-1) Exp. 12-18-13

Element	ug/ml
Ca, Mg, Al	250
Fe	100

ICSAB (ST120621-2) Exp. 12-18-13

Element	ug/ml
Ca, Mg, Al	250
Fe	100
U	10

B, Si, Li, Mo, Sn, Sr, Ti, Cd, Zn, Ni, P, S	1.0
Sb	0.6
Ba, Be, Co, V, Cr, Cu, Mn, Bi, Zr	0.5
Ag	0.2
As, Tl	0.1
Se, Pb, Th	0.05

Pipette ID Numbers

1.0ml to 5.0ml --- M-55
0.1ml to 1.0ml --- M-61
0.01ml to 0.1ml --- M-57

Acid Lot Numbers

HCl – J35042
HNO_3 – J41037

Inter Element Correction Information

The following table summarizes spectral interferences that have been identified and for which IEC's are used. If a sample contains a concentration of an interfering element that exceeds the upper analytical range, and an affected element is being determined, it is necessary to dilute the sample to bring the interfering element into analytical range.

Interfering Element (ug/ml)	Affected Element
Al (500)	Pb
Mg (500)	Th
Fe (200)	Se, Tl, V, Pb, U
Si (50)	Zr
U (50)	Al, Cr, Cu, Bi, Pb, Se, Ag, Tl, Si, Be
Ba (10)	Co
Cr (10)	Sb
Cu (10)	Bi
Mn (10)	Tl
Mo (10)	Al, Si, Pb,, Sb
Ti (10)	Co, Bi, Si, Sn, Tl, Pb, Zr
As (5)	Cd
V (5)	Al, Be, Tl
Zr (5)	Ag

The following table lists element concentrations (ug/ml) that no significant spectral interferences have been observed.

Element	Concentration	Element	Concentration	Element	Concentration
K	500	Se	10		
Na	500	Pb	10	Li	5
Ca	500	Zn	10	Cd	5
P	50	Sr	10	Co	5
S	50	Sn	10	Ag	2
Ni	10	Bi	5	Sb	2
B	10	Tl	5	Be	1

2X – Dilution made by diluting 2.5ml of sample up to a 5ml final volume.
3X - Dilution made by diluting 2.0ml of sample up to a 6ml final volume.
4X - Dilution made by diluting 2.0ml of sample up to a 8ml final volume.
5X - Dilution made by diluting 1.0ml of sample to a 5ml final volume.
10X - Dilution made by diluting 0.5ml of sample to a 5ml final volume.
20X – Dilution made by diluting 0.25ml of sample to a 5ml final volume.
25X – Dilution made by diluting 0.2ml of sample to a 5ml final volume.
50X – Dilution made by diluting 0.1ml of sample to a 5ml final volume.

100X – Dilution made by diluting 0.05ml of sample to a 5ml final volume.
500X – Dilution made by diluting 0.02ml of sample to a 10ml final volume.
1000X – Dilution made by diluting a 10X dilution 100X.

Comments

1309218-2A: 0.1ml of ST130424-1 brought to 5ml volume with digestate.

1. Please see run log and work orders for elements of interest.

Daily Maintenance

1. Check/ Change Peristaltic pump tubing.
2. Check the torch for deposits, clean if necessary.
3. Check/ Empty drain water.

Daily Maintenance done by SMW .

Monthly Maintenance

1. Check/Clean nebulizer and spray chamber.
2. Clean air filters
3. Check/Clean entrance slit.
4. Fill water recirculating reservoir.

Monthly maintenance done by: SMW 9-16-2013

Major problems / adjustments / repairs recorded in the ICP Maintenance Log (3716).

ICPTrace2 Run Log -- 9/25/2013

Instrument ID: ICPTrace2
File Name: 130925A.
AnalRunID: IT130925-2A1
CalibRefID: IT130925-2A1

Comment	Inst Sample Name	Lab ID	DF	Date Analyzed	Time Analyzed
	RINSE	RINSE	1	9/25/2013	11:14
	RINSE	RINSE	1	9/25/2013	11:16
	MIXAHIGH	MIXAHIGH	1	9/25/2013	11:41
	MIXBHIGH	MIXBHIGH	1	9/25/2013	11:43
	MIXCHIGH	MIXCHIGH	1	9/25/2013	11:45
	ICV	ICV	1	9/25/2013	11:54
	ICB	ICB	1	9/25/2013	11:58
	CRI	CRI1	1	9/25/2013	11:59
	ICSA	ICSA1	1	9/25/2013	12:01
	ICSAB	ICSAB1	1	9/25/2013	12:02
	CCV	CCV1	1	9/25/2013	12:04
	CCB	CCB1	1	9/25/2013	12:06
	IP130924-1MB	IP130924-1MB	1	9/25/2013	12:07
	IP130924-1LCS	IP130924-1LCS	1	9/25/2013	12:23
	IP130924-1LCSD	IP130924-1LCSD	1	9/25/2013	12:25
	1309204-1	1309204-1	1	9/25/2013	12:26
	1309204-2	1309204-2	1	9/25/2013	12:28
	1309204-3	1309204-3	1	9/25/2013	12:29
	1309293-1	1309293-1	1	9/25/2013	12:31
	1309293-2	1309293-2	1	9/25/2013	12:32
	1309293-3	1309293-3	1	9/25/2013	12:34
	ZZZZZZ	ZZZZZZ		9/25/2013	12:41
	CCV	CCV2	1	9/25/2013	12:43
	CCB	CCB2	1	9/25/2013	12:53
	EX130923-2MB	EX130923-2MB	1	9/25/2013	12:55
- Na	EX130923-2LCS	EX130923-2LCS	1	9/25/2013	12:56
	1309247-3	1309247-3	1	9/25/2013	12:58
	1309247-3D	1309247-3DUP	1	9/25/2013	12:59
	1309247-3L 5X	1309247-3SER	5	9/25/2013	13:01
- Na	1309247-3MS	1309247-3MS	1	9/25/2013	13:02
- Na	1309247-3MSD	1309247-3MSD	1	9/25/2013	13:04
	1309247-4	1309247-4	1	9/25/2013	13:06
	F130923-1MB	F130923-1MB	1	9/25/2013	13:07
	F130923-1LCS	F130923-1LCS	1	9/25/2013	13:10
	CCV	CCV3	1	9/25/2013	13:12

Data Package ID:

ICPTrace2 Run Log -- 9/25/2013

Instrument ID: ICPTrace2
File Name: 130925A.
AnalRunID: IT130925-2A1
CalibRefID: IT130925-2A1

Comment	Inst Sample Name	Lab ID	DF	Date Analyzed	Time Analyzed
	CCB	CCB3	1	9/25/2013	13:14
	F130923-1LCSD	F130923-1LCSD	1	9/25/2013	13:16
	1309158-1	1309158-1	1	9/25/2013	13:17
	1309217-2	1309217-2	1	9/25/2013	13:19
	1309218-2	1309218-2	1	9/25/2013	13:21
	1309218-2L 5X	1309218-2SER	5	9/25/2013	13:22
	1309218-2A	1309218-2A	1	9/25/2013	13:24
	1309218-8	1309218-8	1	9/25/2013	13:25
- Al,Mo,Pb,Sb,Si	1309218-12	1309218-12	1	9/25/2013	13:27
	1309258-1	1309258-1	1	9/25/2013	13:28
	1309258-1D	1309258-1DUP	1	9/25/2013	13:30
	CCV	CCV4	1	9/25/2013	13:33
	CCB	CCB4	1	9/25/2013	13:39
	1309258-1L 5X	1309258-1SER	5	9/25/2013	13:41
	1309258-1MS	1309258-1MS	1	9/25/2013	13:43
	1309258-1MSD	1309258-1MSD	1	9/25/2013	13:44
- S	1309279-1	1309279-1	1	9/25/2013	13:47
	1309279-2	1309279-2	1	9/25/2013	13:48
	1309304-1	1309304-1	1	9/25/2013	13:50
	IP130924-4MB	IP130924-4MB	1	9/25/2013	13:54
	IP130924-4LCS	IP130924-4LCS	1	9/25/2013	13:55
- Na,S,Sr	1309329-1	1309329-1	1	9/25/2013	13:57
- Na,S,Sr	1309329-1D	1309329-1DUP	1	9/25/2013	13:58
	CCV	CCV5	1	9/25/2013	14:00
	CCB	CCB5	1	9/25/2013	14:01
- Na,S,Sr	1309329-1L 5X	1309329-1SER	5	9/25/2013	14:03
- Na,S,Sr	1309329-1MS	1309329-1MS	1	9/25/2013	14:04
- Na,S,Sr	1309329-1MSD	1309329-1MSD	1	9/25/2013	14:06
- Na,S,Sr	1309329-2	1309329-2	1	9/25/2013	14:08
- Na,S,Sr	1309329-3	1309329-3	1	9/25/2013	14:09
- Na,S,Sr	1309329-4	1309329-4	1	9/25/2013	14:11
	1309329-5	1309329-5	1	9/25/2013	14:12
	1309329-6	1309329-6	1	9/25/2013	14:14
- S	1309313-9	1309313-9	1	9/25/2013	14:15
- S	1309313-10	1309313-10	1	9/25/2013	14:17

Data Package ID:

ICPTrace2 Run Log -- 9/25/2013

Instrument ID: ICPTrace2
File Name: 130925A.
AnalRunID: IT130925-2A1
CalibRefID: IT130925-2A1

Comment	Inst Sample Name	Lab ID	DF	Date Analyzed	Time Analyzed
	CCV	CCV6	1	9/25/2013	14:19
	CCB	CCB6	1	9/25/2013	14:24
- S	1309313-11	1309313-11	1	9/25/2013	14:26
- S	1309313-12	1309313-12	1	9/25/2013	14:27
	1309315-4	1309315-4	1	9/25/2013	14:29
	1309315-5	1309315-5	1	9/25/2013	14:30
	1309327-1	1309327-1	1	9/25/2013	14:32
	1309327-2	1309327-2	1	9/25/2013	14:33
- S	1309327-6	1309327-6	1	9/25/2013	14:35
- S	1309327-7	1309327-7	1	9/25/2013	14:36
	1309327-10	1309327-10	1	9/25/2013	14:38
	1309327-11	1309327-11	1	9/25/2013	14:39
	CCV	CCV7	1	9/25/2013	14:41
	CCB	CCB7	1	9/25/2013	14:43
- S	1309327-12	1309327-12	1	9/25/2013	14:44
- S	1309327-13	1309327-13	1	9/25/2013	14:46
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr	1309329-1 50X	1309329-1	50	9/25/2013	14:48
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr	1309329-1D 50X	1309329-1DUP	50	9/25/2013	14:49
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr	1309329-1L 250X	1309329-1SER	250	9/25/2013	14:51
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr	1309329-1MS 50X	1309329-1MS	50	9/25/2013	14:52
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr	1309329-1MSD 50X	1309329-1MSD	50	9/25/2013	14:54
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr	1309329-2 50X	1309329-2	50	9/25/2013	14:55
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr	1309329-3 50X	1309329-3	50	9/25/2013	14:57
Ag,Al,As,B,Ba,Be,Bi,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Ni,P,Pb,Sb,Se,Si,Sn,Ti,Tl,U,V,Zn,Zr	1309329-4 50X	1309329-4	50	9/25/2013	14:59
	CCV	CCV8	1	9/25/2013	15:00
	CCB	CCB8	1	9/25/2013	15:02
	CRI	CRI2	1	9/25/2013	15:03
	ICSA	ICSA2	1	9/25/2013	15:05
	ICSAB	ICSAB2	1	9/25/2013	15:07
	CCV	CCV9	1	9/25/2013	15:08
	CCB	CCB9	1	9/25/2013	15:10

Data Package ID:

Sample Id1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
RINSE	-0.0003	-0.0580	0.0008	-0.0151	0.0240	-0.0012	-0.0054	-0.1593	-0.0002	-0.0002	-0.0001	-0.0002
RINSE	-0.0006	-0.0601	0.0051	-0.0147	0.0258	-0.0012	-0.0037	-0.1597	-0.0006	-0.0002	-0.0001	-0.0002
MIXAHIGH	-0.0013	506.1812	0.0001	-0.0108	-0.0004	0.0009	0.0064	495.6825	0.0008	0.0054	-0.0014	-0.0049
MIXBHIGH	2.0123	0.1313	5.0566	10.0495	10.0305	0.9867	0.0029	0.1424	5.0177	5.0132	10.0419	10.0379
MIXCHIGH	0.0056	1.0209	0.0001	0.0159	0.0002	0.0008	5.0012	0.1263	0.0003	0.0059	-0.0069	0.0154
ICV	0.0985	23.8454	0.2617	0.5003	0.4953	0.2423	0.2561	24.5421	0.2465	0.2548	0.4869	0.5081
ICB	-0.0003	0.0413	0.0005	-0.0072	-0.0005	0.0000	-0.0018	0.1283	0.0003	-0.0007	0.0012	-0.0001
CRI	0.0204	0.3916	0.0131	0.4021	0.4199	0.0113	0.0479	5.0828	0.0115	0.1050	0.0220	0.0534
ICSA	-0.0005	268.8253	0.0050	-0.0123	-0.0009	0.0005	0.0059	263.8297	0.0006	0.0033	0.0003	-0.0019
ICSAB	0.1973	261.8596	0.0992	0.9460	0.4788	0.4490	0.4932	254.6359	0.9766	0.4786	0.4610	0.5235
CCV	0.1989	49.8597	0.4992	1.0057	0.9694	0.4802	0.5076	49.6921	0.5040	0.5077	0.9679	1.0113
CCB	-0.0004	0.0650	0.0020	-0.0050	-0.0002	0.0002	0.0012	0.1546	0.0001	-0.0005	0.0013	0.0001
IP130924-1MB	-0.0012	0.0104	-0.0005	-0.0086	-0.0008	-0.0001	-0.0016	0.0888	0.0002	-0.0012	0.0002	-0.0003
IP130924-1LCS	-0.0005	-0.0352	-0.0001	-0.0056	-0.0008	0.0051	-0.0038	0.0588	-0.0004	-0.0009	-0.0007	-0.0013
IP130924-1LCSD	-0.0004	-0.0315	-0.0012	-0.0069	-0.0008	0.0052	-0.0008	0.0611	-0.0001	-0.0003	0.0000	-0.0008
1309204-1	0.0030	1.9470	0.0007	0.0211	0.0195	0.0001	0.0064	3.1945	0.0003	-0.0004	0.0182	0.3549
1309204-2	-0.0004	0.0442	-0.0005	-0.0069	0.0031	0.0001	0.0007	0.4211	0.0004	-0.0009	0.0120	0.0041
1309204-3	-0.0005	0.1211	-0.0005	0.0000	0.0040	0.0000	0.0005	0.6338	0.0002	-0.0011	0.0162	0.0099
1309293-1	-0.0005	0.2521	0.0016	0.0156	0.0105	0.0000	0.0032	0.9795	0.0003	-0.0006	0.0347	0.0968
1309293-2	-0.0004	0.2654	-0.0040	0.0343	0.0124	0.0000	0.0001	1.1402	0.0006	-0.0012	0.0089	0.1048
1309293-3	-0.0004	1.3765	-0.0042	0.0082	0.0182	0.0000	0.0022	2.3185	0.0005	0.0000	0.0162	0.5598
MS SPIKE 100X	0.0093	4.5586	0.1018	1.0166	0.1001	0.0500	-0.0034	9.3810	0.0312	0.1014	0.4910	1.0219
CCV	0.1964	48.7979	0.4916	0.9920	0.9709	0.4688	0.5105	48.5877	0.4968	0.4988	0.9470	1.0088
CCB	-0.0006	-0.0564	-0.0015	-0.0093	-0.0014	0.0000	-0.0018	0.1008	0.0002	-0.0004	0.0007	-0.0012
EX130923-2MB	-0.0003	-0.0846	-0.0036	-0.0110	-0.0001	0.0001	-0.0038	0.0544	0.0000	-0.0012	0.0002	-0.0008
EX130923-2LCS	0.0967	1.8960	0.9756	0.9664	1.0397	0.0470	-0.0023	37.0999	0.0510	0.4978	0.2021	0.2605
1309247-3	-0.0006	-0.0756	-0.0015	-0.0105	0.0465	0.0001	0.0029	79.2999	0.0001	-0.0014	0.0005	0.0018
1309247-3D	0.0000	-0.0680	0.0000	-0.0104	0.0471	0.0002	-0.0049	79.0976	0.0004	-0.0012	0.0005	0.0019
1309247-3L 5X	-0.0006	-0.0615	-0.0016	-0.0064	0.0090	0.0002	-0.0012	16.0891	-0.0001	-0.0010	-0.0001	-0.0002
1309247-3MS	0.0973	1.8865	0.9515	0.9576	1.0809	0.0455	-0.0022	116.0760	0.0494	0.4836	0.1949	0.2654
1309247-3MSD	0.0952	1.8794	0.9782	0.9656	1.0759	0.0460	-0.0013	117.7491	0.0499	0.4866	0.1963	0.2622
1309247-4	-0.0002	-0.0680	-0.0024	-0.0095	0.0491	0.0003	-0.0013	77.8219	0.0004	-0.0008	0.0013	0.0068
F130923-1MB	-0.0001	-0.0806	0.0001	-0.0132	-0.0016	0.0002	-0.0006	0.0413	-0.0001	-0.0004	0.0001	-0.0010
F130923-1LCS	0.0998	1.9767	1.0450	1.0528	1.0870	0.0485	-0.0013	40.0023	0.0527	0.5189	0.2111	0.2673
CCV	0.1980	48.4498	0.5027	0.9973	1.0171	0.4851	0.5127	48.7884	0.5029	0.5001	0.9882	1.0148
CCB	-0.0002	-0.0487	0.0000	-0.0070	-0.0014	0.0001	-0.0045	0.1094	0.0002	-0.0004	0.0005	-0.0015
F130923-1LCSD	0.0998	1.9480	1.0476	1.0424	1.0778	0.0481	0.0012	39.9244	0.0526	0.5141	0.2096	0.2663
1309158-1	-0.0018	-0.0685	-0.0008	-0.0001	0.3705	0.0003	-0.0060	10.1158	-0.0003	-0.0010	-0.0008	0.0006
1309217-2	-0.0009	-0.0606	0.0026	0.0073	0.1104	0.0004	-0.0030	3.7041	-0.0003	-0.0004	-0.0002	-0.0008
1309218-2	-0.0005	-0.0537	0.0016	0.0219	0.0067	0.0004	-0.0004	27.4973	-0.0001	-0.0003	0.0008	0.0104
1309218-2L 5X	-0.0003	-0.0556	-0.0011	-0.0003	0.0008	0.0003	0.0008	5.4838	0.0003	-0.0004	0.0001	0.0016
1309218-2A	-0.0008	1.8574	1.0000	1.0352	1.0819	0.0470	-0.0013	26.8173	0.0494	0.4995	0.2044	0.2739
1309218-8	-0.0003	-0.0622	-0.0034	0.0118	0.0099	0.0004	-0.0027	33.3423	-0.0002	-0.0002	0.0003	0.0000
1309218-12	-0.0001	-0.0827	0.0074	1.9770	0.0140	0.0007	-0.0020	22.9293	0.0033	0.0001	0.0044	0.0351
1309258-1	-0.0005	0.6023	-0.0044	0.0109	0.1631	0.0006	-0.0019	41.7154	-0.0003	-0.0004	0.0003	0.0061
1309258-1D	-0.0003	0.6939	-0.0017	0.0094	0.1618	0.0005	-0.0023	41.6828	0.0000	-0.0007	0.0003	0.0063
CCV	0.1982	48.1714	0.5027	0.9975	1.0179	0.4831	0.5195	48.7643	0.5062	0.4994	0.9858	1.0159
CCB	-0.0002	-0.0469	-0.0030	-0.0070	-0.0014	0.0000	-0.0050	0.1098	-0.0002	-0.0008	0.0000	-0.0017
1309258-1L 5X	-0.0009	0.0875	0.0017	-0.0033	0.0319	0.0001	0.0003	8.2960	-0.0002	-0.0012	-0.0003	0.0006
1309258-1MS	0.0993	2.9398	1.0614	1.0665	1.2318	0.0480	0.0026	80.5983	0.0523	0.5082	0.2058	0.2754

Sample Id1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
1309258-1MSD	0.0987	2.9178	1.0473	1.0651	1.2345	0.0477	0.0016	79.2470	0.0517	0.5061	0.2041	0.2768
1309279-1	-0.0006	0.3115	0.0003	0.0200	0.0412	0.0005	-0.0030	74.5911	0.0034	0.0008	0.0007	0.0045
1309279-2	-0.0013	7.8100	0.0055	0.0151	1.4735	0.0014	-0.0046	58.8867	0.0056	0.0073	0.0247	0.0684
1309304-1	-0.0004	-0.0095	-0.0033	-0.0039	0.0455	0.0003	-0.0028	5.1622	0.0000	-0.0002	0.0037	0.0020
IP130924-4MB	-0.0010	-0.0404	-0.0016	-0.0088	-0.0015	0.0001	-0.0057	0.1065	-0.0004	-0.0013	-0.0003	-0.0018
IP130924-4LCS	0.0960	1.8494	0.9935	1.0057	1.0441	0.0489	-0.0020	38.5208	0.0518	0.4924	0.1995	0.2589
1309329-1	-0.0008	0.2092	0.0051	2.0085	0.0335	0.0004	-0.0032	304.1748	-0.0003	-0.0005	0.0015	0.0052
1309329-1D	-0.0006	0.2224	0.0001	2.0306	0.0352	0.0004	-0.0014	306.5888	-0.0006	0.0000	0.0024	0.0051
CCV	0.1988	48.1850	0.4924	1.0071	1.0209	0.4860	0.5196	49.4031	0.5126	0.5037	0.9927	1.0219
CCB	0.0003	-0.0295	0.0012	-0.0051	-0.0011	0.0002	0.0020	0.1451	0.0004	-0.0003	0.0004	-0.0012
1309329-1L 5X	-0.0010	0.0041	0.0017	0.4128	0.0067	0.0003	-0.0030	60.7132	-0.0003	-0.0002	0.0001	-0.0003
1309329-1MS	0.0960	2.2977	0.9756	3.0116	0.9665	0.0427	-0.0030	342.4483	0.0487	0.4370	0.1739	0.2576
1309329-1MSD	0.0976	2.2705	0.9678	2.9996	0.9718	0.0428	0.0001	339.6175	0.0484	0.4385	0.1744	0.2600
1309329-2	-0.0011	0.0734	0.0013	2.0619	0.0331	0.0006	0.0016	301.8167	-0.0001	-0.0001	0.0014	0.0053
1309329-3	-0.0001	-0.0547	-0.0008	2.0398	0.0314	0.0006	0.0001	299.4485	0.0000	0.0001	0.0008	0.0051
1309329-4	-0.0009	-0.0601	0.0049	2.0328	0.0313	0.0006	0.0014	298.0919	-0.0002	-0.0003	0.0004	0.0067
1309329-5	-0.0011	0.5501	-0.0018	0.0180	0.1219	0.0004	-0.0020	130.2168	-0.0004	-0.0006	0.0277	-0.0008
1309329-6	-0.0006	0.0828	0.0108	0.0951	0.0273	0.0003	0.0009	12.7552	0.0000	-0.0009	0.0068	-0.0015
1309313-9	-0.0004	-0.0636	-0.0016	0.1446	0.0920	0.0003	0.0012	80.1125	-0.0001	-0.0001	-0.0002	0.0034
1309313-10	-0.0008	-0.0646	0.0026	0.1791	0.1550	0.0003	-0.0021	107.4785	0.0000	-0.0006	0.0003	0.0025
CCV	0.1981	47.9917	0.5017	1.0070	1.0245	0.4807	0.5225	48.7844	0.5109	0.4994	0.9820	1.0274
CCB	-0.0005	-0.0311	0.0005	-0.0064	-0.0012	0.0003	-0.0029	0.1371	0.0000	-0.0009	0.0003	-0.0017
1309313-11	-0.0005	-0.0644	0.0011	0.1454	0.1334	0.0004	-0.0046	97.7049	-0.0001	-0.0006	-0.0001	0.0012
1309313-12	-0.0004	-0.0487	0.0016	0.1419	0.1435	0.0005	-0.0030	125.1083	-0.0002	-0.0001	-0.0003	0.0016
1309315-4	-0.0010	-0.0484	-0.0036	0.0536	0.0454	0.0005	-0.0021	39.4060	0.0001	-0.0016	-0.0004	0.0023
1309315-5	-0.0003	-0.0511	-0.0018	0.0504	0.1175	0.0005	0.0006	56.6705	0.0004	-0.0006	-0.0003	-0.0006
1309327-1	-0.0009	6.0922	-0.0012	0.0838	0.0992	0.0009	-0.0034	41.3403	0.0000	0.0015	0.0068	0.0104
1309327-2	-0.0005	6.0434	0.0061	0.0849	0.1003	0.0009	0.0026	41.5717	0.0000	0.0019	0.0072	0.0107
1309327-6	-0.0005	0.7392	-0.0009	0.2095	0.1882	0.0006	0.0034	96.2694	0.0002	0.0018	0.0005	0.0071
1309327-7	-0.0003	2.3885	0.0026	0.2051	0.1275	0.0007	0.0001	86.5749	-0.0001	0.0021	0.0025	0.0088
1309327-10	-0.0006	-0.0492	-0.0013	0.0813	0.0461	0.0005	-0.0021	40.4070	0.0000	-0.0006	0.0002	0.0035
1309327-11	-0.0005	-0.0498	0.0011	0.0783	0.0456	0.0005	-0.0022	39.8892	-0.0004	-0.0012	-0.0002	0.0006
CCV	0.1987	47.6394	0.4972	0.9988	1.0235	0.4783	0.5183	48.7333	0.5120	0.4980	0.9797	1.0273
CCB	-0.0004	-0.0238	-0.0050	-0.0071	-0.0012	0.0004	-0.0003	0.1283	-0.0003	-0.0012	0.0007	-0.0022
1309327-12	-0.0010	-0.0643	-0.0065	0.1995	0.1798	0.0005	-0.0007	93.6664	0.0000	0.0011	0.0000	0.0052
1309327-13	-0.0006	-0.0518	0.0009	0.2033	0.1083	0.0005	-0.0030	87.0026	-0.0005	0.0003	0.0001	0.0036
1309329-1 50X	-0.0005	-0.0427	-0.0034	0.0348	0.0000	0.0003	-0.0019	6.0838	-0.0003	-0.0006	-0.0001	-0.0018
1309329-1D 50X	-0.0002	-0.0502	0.0021	0.0360	0.0002	0.0003	0.0056	6.2414	0.0003	-0.0004	0.0004	-0.0024
1309329-1L 250X	-0.0009	-0.0504	0.0001	0.0028	-0.0006	0.0003	-0.0025	1.2670	-0.0003	-0.0005	-0.0005	-0.0025
1309329-1MS 50X	0.0018	-0.0060	0.0218	0.0541	0.0205	0.0013	-0.0030	6.9378	0.0007	0.0089	0.0042	0.0033
1309329-1MSD 50X	0.0013	-0.0025	0.0194	0.0564	0.0211	0.0014	-0.0014	7.0723	0.0008	0.0093	0.0041	0.0032
1309329-2 50X	-0.0007	-0.0433	-0.0025	0.0354	0.0000	0.0004	-0.0019	6.2012	-0.0002	-0.0009	-0.0003	-0.0022
1309329-3 50X	-0.0007	-0.0391	-0.0025	0.0346	0.0000	0.0005	-0.0001	6.1283	-0.0005	-0.0003	-0.0001	-0.0023
1309329-4 50X	-0.0010	-0.0369	0.0030	0.0351	0.0000	0.0006	-0.0045	6.1516	-0.0003	-0.0010	-0.0006	-0.0022
CCV	0.1959	47.0178	0.5021	0.9969	1.0242	0.4703	0.5204	47.7701	0.5027	0.4910	0.9612	1.0290
CCB	-0.0004	-0.0048	0.0012	-0.0072	-0.0012	0.0007	-0.0013	0.1298	-0.0001	-0.0007	0.0003	-0.0021
CRI	0.0205	0.3466	0.0096	0.4065	0.4479	0.0123	0.0551	5.0719	0.0123	0.1041	0.0229	0.0530
ICSA	0.0003	252.2277	-0.0037	-0.0142	-0.0009	0.0013	0.0025	258.8373	0.0010	0.0029	-0.0001	-0.0048
ICSAB	0.1992	248.2129	0.1030	0.9650	0.5117	0.4524	0.5207	253.7668	1.0137	0.4762	0.4729	0.5370
CCV	0.1976	47.1923	0.5116	1.0009	1.0219	0.4741	0.5250	48.6909	0.5141	0.4958	0.9738	1.0275

Sample Id1	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu
CCB	-0.0005	-0.0045	-0.0025	-0.0073	-0.0011	0.0006	0.0027	0.1416	-0.0001	-0.0004	0.0002	-0.0022

Sample Id1	Fe	Li	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pb I	Pb II
RINSE	-0.0114	-0.0024	-0.0175	0.0455	-0.0001	-0.0005	1.2008	-0.0010	-0.0073	0.0168	0.0171	0.0166
RINSE	-0.0120	-0.0024	-0.0270	0.0426	-0.0001	-0.0011	1.2508	-0.0009	-0.0078	0.0149	0.0152	0.0148
MIXAHIGH	197.2254	9.9861	249.5263	497.8611	0.0047	-0.0015	150.2973	0.0020	0.0166	0.0008	-0.0025	0.0024
MIXBHIGH	0.0318	-0.0008	0.3511	0.0761	9.9991	10.0842	0.4296	10.1136	50.1979	10.0508	10.0529	10.0498
MIXCHIGH	-0.0092	-0.0019	0.3379	-0.4271	0.0067	0.0110	0.4055	0.0043	0.0494	0.0106	-0.0302	0.0310
ICV	10.0176	0.2391	24.7891	24.5277	0.4905	0.4860	24.2439	0.5013	2.4833	0.4835	0.4819	0.4843
ICB	0.0042	-0.0022	0.0324	0.0368	0.0003	-0.0005	0.0858	-0.0004	-0.0053	0.0014	-0.0012	0.0027
CRI	0.1951	0.0146	4.0847	5.0701	0.0324	0.0200	4.0971	0.0829	0.2053	0.0068	0.0046	0.0079
ICSA	112.1235	-0.0021	0.0212	265.2402	0.0032	-0.0032	0.0740	0.0008	0.0054	0.0015	0.0055	-0.0004
ICSAB	108.4330	1.0975	0.0109	257.3036	0.4640	0.9149	0.0543	0.9158	0.9918	0.0486	0.0442	0.0508
CCV	20.2457	0.5224	51.3050	48.9442	0.9708	0.9742	51.1631	0.9936	4.8756	0.9661	0.9586	0.9698
CCB	0.0178	-0.0022	0.0486	0.0592	0.0006	0.0023	0.0971	0.0001	0.0049	0.0001	-0.0016	0.0010
IP130924-1MB	0.3857	-0.0026	-0.0207	0.0188	0.0010	0.0008	0.0667	0.0000	0.0054	0.0011	-0.0015	0.0024
IP130924-1LCS	-0.0084	-0.0026	-0.0018	0.0087	-0.0005	-0.0016	0.0431	-0.0008	-0.0042	-0.0012	-0.0020	-0.0007
IP130924-1LCSD	-0.0082	-0.0026	-0.0075	0.0102	-0.0005	-0.0020	0.0439	-0.0016	-0.0009	-0.0023	-0.0018	-0.0025
1309204-1	1.3696	-0.0022	0.2575	0.3664	0.0248	-0.0002	0.3966	0.0048	0.0691	0.0508	0.0463	0.0531
1309204-2	0.4686	-0.0026	0.0245	0.0368	0.0042	-0.0018	0.1717	0.0049	0.0112	0.0019	0.0006	0.0025
1309204-3	0.5933	-0.0026	0.0410	0.0403	0.0067	-0.0013	0.2256	0.0074	0.0080	0.0038	-0.0003	0.0058
1309293-1	1.1677	-0.0025	0.0773	0.0661	0.0094	-0.0013	0.2969	0.0137	0.0180	0.0031	0.0015	0.0039
1309293-2	0.7609	-0.0025	0.0794	0.0747	0.0057	-0.0010	0.3259	0.0080	0.0151	0.0031	-0.0003	0.0048
1309293-3	2.8442	-0.0021	0.7541	0.4241	0.1206	-0.0012	1.4862	0.0115	0.1094	0.0618	0.0596	0.0628
MS SPIKE 100X	4.7996	0.8214	4.2923	9.3389	0.1918	0.0998	8.2297	0.5096	-0.0053	0.0492	0.0492	0.0492
CCV	19.7807	0.5213	51.0143	48.1214	0.9459	0.9644	51.0047	0.9928	4.7372	0.9416	0.9461	0.9394
CCB	-0.0089	-0.0026	0.0065	0.0147	-0.0003	-0.0023	0.0394	-0.0008	-0.0042	-0.0018	-0.0007	-0.0023
EX130923-2MB	0.0081	-0.0026	0.0476	0.0102	-0.0004	-0.0019	148.0319	0.0004	-0.0045	0.0000	-0.0008	0.0004
EX130923-2LCS	0.9364	0.5638	48.2320	36.7456	0.5007	1.0095	184.9192	0.4919	0.0041	0.4818	0.4676	0.4889
1309247-3	0.0112	-0.0020	0.2218	1.0802	0.0881	0.0001	148.0639	0.0012	0.0083	0.0015	-0.0013	0.0028
1309247-3D	0.6341	-0.0022	0.1807	1.0799	0.0899	-0.0014	148.7909	0.0015	0.0015	0.0011	0.0002	0.0016
1309247-3L 5X	-0.0042	-0.0025	0.0318	0.2336	0.0181	-0.0022	27.9151	-0.0006	0.0028	-0.0006	-0.0004	-0.0008
1309247-3MS	0.9101	0.5817	49.7566	37.6108	0.5700	0.9815	183.3430	0.4818	0.0046	0.4756	0.4656	0.4806
1309247-3MSD	0.9161	0.5787	49.3629	37.8569	0.5739	0.9865	182.8751	0.4870	0.0135	0.4824	0.4681	0.4896
1309247-4	0.0169	-0.0020	0.1811	1.1657	0.1240	-0.0004	148.6539	0.0008	0.0104	0.0002	0.0027	-0.0011
F130923-1MB	-0.0081	-0.0027	0.0053	0.0087	-0.0005	-0.0025	0.1206	-0.0015	0.0012	-0.0013	-0.0001	-0.0019
F130923-1LCS	0.9760	0.5057	42.3613	40.4184	0.5259	1.0350	41.3611	0.5222	10.4455	0.5106	0.4948	0.5185
CCV	19.7252	0.5041	50.8472	48.0820	0.9947	1.0107	50.7802	1.0016	4.8490	0.9692	0.9437	0.9819
CCB	-0.0052	-0.0025	0.0171	0.0196	-0.0001	-0.0005	0.0549	-0.0009	0.0005	-0.0003	-0.0032	0.0012
F130923-1LCSD	0.9711	0.5055	42.3395	40.3769	0.5228	1.0259	41.5472	0.5160	10.3599	0.5073	0.4937	0.5141
1309158-1	-0.0006	0.0066	1.2899	0.6008	0.0131	0.0021	101.2434	-0.0015	0.0020	0.0004	-0.0038	0.0025
1309217-2	-0.0029	0.0108	0.5046	0.1097	0.0048	0.0315	111.0325	-0.0008	0.0018	-0.0012	-0.0027	-0.0004
1309218-2	1.2090	0.0001	4.1888	4.1245	0.0797	0.0004	3.2229	-0.0001	0.2278	-0.0004	-0.0026	0.0006
1309218-2L 5X	0.2399	-0.0021	0.6784	0.8307	0.0160	-0.0019	0.6064	-0.0012	0.0475	-0.0014	0.0001	-0.0021
1309218-2A	2.1463	0.0003	4.1593	4.0513	0.5871	0.9948	3.1682	0.5093	0.2254	0.4833	0.4688	0.4905
1309218-8	0.2419	0.0006	0.2467	10.8434	0.0333	0.0030	2.3441	-0.0005	0.0216	-0.0018	-0.0017	-0.0018
1309218-12	67.5104	0.0055	30.9473	22.0928	0.6396	18.7858	72.3371	0.0022	2.3909	-0.0072	0.0069	-0.0142
1309258-1	0.4646	0.0063	0.5862	6.8910	0.0048	0.0393	13.2847	-0.0009	0.0093	-0.0001	-0.0010	0.0004
1309258-1D	0.4684	0.0063	0.5918	6.8740	0.0046	0.0163	13.2223	-0.0003	0.0289	0.0001	0.0005	-0.0001
CCV	19.6831	0.5033	50.7642	47.9970	0.9907	1.0109	51.0411	1.0081	4.8584	0.9610	0.9431	0.9699
CCB	-0.0099	-0.0025	0.0207	0.0193	-0.0001	-0.0009	0.0483	-0.0013	-0.0061	0.0003	0.0009	-0.0001
1309258-1L 5X	0.0828	-0.0011	0.0829	1.3711	0.0005	0.0011	2.2890	-0.0003	-0.0050	-0.0016	-0.0033	-0.0007
1309258-1MS	1.4673	0.5403	44.6312	46.7196	0.5158	1.0321	57.3418	0.5150	10.6326	0.5046	0.4867	0.5135

Sample Id1	Fe	Li	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pb I	Pb II
1309258-1MSD	1.4483	0.5429	44.7526	46.6041	0.5132	1.0342	57.0084	0.5145	10.4712	0.4997	0.4868	0.5062
1309279-1	0.1481	0.0064	3.1485	7.4043	0.1398	0.0137	8.1962	0.0073	0.0582	-0.0001	0.0003	-0.0003
1309279-2	24.3307	0.0111	5.5004	9.6105	0.5011	0.0142	6.2266	0.0171	3.2784	0.1597	0.1563	0.1613
1309304-1	0.3238	-0.0022	0.5640	0.4740	0.1259	-0.0008	0.2400	0.0012	0.0185	-0.0002	-0.0008	0.0001
IP130924-4MB	-0.0103	-0.0026	-0.0071	0.0139	-0.0003	-0.0017	0.0441	-0.0018	0.0025	-0.0028	-0.0040	-0.0021
IP130924-4LCS	0.9424	0.5045	38.2761	38.6971	0.4968	0.9913	40.1217	0.5022	0.0025	0.4768	0.4714	0.4795
1309329-1	0.1172	0.2898	12.4156	126.7983	0.0017	0.0201	407.8396	-0.0001	-0.0317	0.0004	0.0020	-0.0004
1309329-1D	0.1569	0.2935	12.5880	127.9896	0.0019	0.0185	398.2841	-0.0007	-0.0445	-0.0008	-0.0015	-0.0005
CCV	19.8008	0.5055	50.9043	48.2789	0.9962	1.0254	48.8502	1.0221	4.8536	0.9697	0.9499	0.9796
CCB	0.0001	-0.0022	0.0336	0.0368	0.0002	0.0007	0.1264	-0.0011	-0.0053	-0.0014	0.0014	-0.0027
1309329-1L 5X	0.0209	0.0473	1.7882	27.0535	-0.0001	0.0027	191.8742	-0.0019	-0.0191	0.0000	-0.0024	0.0011
1309329-1MS	0.9604	0.9794	76.9763	163.3866	0.4315	0.9371	380.1032	0.4331	-0.0178	0.4417	0.4344	0.4453
1309329-1MSD	0.9504	0.9860	77.7169	162.8313	0.4325	0.9455	372.2798	0.4386	-0.0275	0.4413	0.4372	0.4433
1309329-2	0.0539	0.3036	12.9409	128.4864	0.0014	0.0205	370.2413	-0.0016	-0.0390	-0.0020	-0.0005	-0.0027
1309329-3	-0.0088	0.2952	12.5062	126.8157	0.0007	0.0186	373.6846	-0.0006	-0.0489	-0.0031	-0.0016	-0.0039
1309329-4	-0.0059	0.2964	12.6267	126.7008	-0.0001	0.0188	370.7800	-0.0008	-0.0465	-0.0012	0.0012	-0.0024
1309329-5	0.0178	0.0361	4.0924	0.0589	0.0000	0.0013	46.6415	-0.0013	-0.0267	-0.0015	0.0020	-0.0033
1309329-6	0.0644	0.0094	4.8409	0.0546	0.0015	0.0102	43.7610	0.0001	-0.0003	-0.0011	-0.0014	-0.0009
1309313-9	0.0148	0.0204	6.8446	34.4626	0.0308	0.0045	52.6553	0.0020	0.2377	0.0005	-0.0012	0.0014
1309313-10	0.0234	0.0213	9.4553	42.3982	0.1142	0.0050	64.2946	0.0018	0.1927	-0.0002	0.0000	-0.0003
CCV	19.6038	0.5078	51.1150	48.1596	0.9857	1.0109	50.4462	1.0202	4.7828	0.9645	0.9418	0.9758
CCB	-0.0050	-0.0023	0.0201	0.0311	0.0000	-0.0017	0.1044	-0.0012	-0.0092	0.0004	-0.0018	0.0015
1309313-11	0.0249	0.0193	12.4615	41.1304	0.0019	0.0043	49.8274	0.0020	0.3512	-0.0014	-0.0034	-0.0003
1309313-12	0.1243	0.0167	14.3330	44.0209	0.0361	0.0140	46.5742	0.0034	0.2050	-0.0009	-0.0021	-0.0003
1309315-4	0.0227	0.0073	4.3627	12.0584	0.0014	0.0013	16.0762	0.0007	0.0203	-0.0002	-0.0038	0.0016
1309315-5	0.0215	0.0060	11.1727	10.9388	0.0432	0.0099	9.3228	0.0017	0.0227	-0.0012	-0.0032	-0.0002
1309327-1	7.0148	0.0139	5.9842	22.5030	0.2126	0.0022	35.3536	0.0045	0.2686	0.0084	0.0046	0.0103
1309327-2	7.1591	0.0139	5.9659	22.5452	0.2147	0.0016	35.2637	0.0075	0.2947	0.0083	0.0100	0.0075
1309327-6	0.7488	0.0191	10.0694	23.3454	0.0133	0.0114	129.4169	0.0032	0.1214	-0.0001	0.0007	-0.0005
1309327-7	2.4340	0.0186	11.6492	20.1589	0.0975	0.0093	108.4668	0.0031	0.2212	0.0039	0.0049	0.0033
1309327-10	0.0249	0.0077	4.4128	21.1293	0.0819	0.0020	34.6917	0.0010	0.0827	0.0000	0.0009	-0.0005
1309327-11	0.0349	0.0075	4.3434	20.7835	0.0776	0.0021	34.1887	0.0017	0.0799	-0.0007	-0.0024	0.0002
CCV	19.5252	0.5070	50.9731	47.9697	0.9798	1.0080	51.1475	1.0278	4.7198	0.9630	0.9390	0.9750
CCB	-0.0030	-0.0024	0.0258	0.0319	0.0001	0.0009	0.0848	-0.0019	-0.0040	0.0006	-0.0019	0.0018
1309327-12	0.0006	0.0181	9.6290	22.6177	0.0048	0.0098	126.8050	0.0030	0.0940	0.0008	0.0005	0.0010
1309327-13	0.0015	0.0172	11.2675	19.8581	0.0536	0.0081	108.9830	0.0024	0.1363	-0.0005	-0.0016	0.0000
1309329-1 50X	-0.0051	0.0010	0.1235	2.7293	-0.0004	-0.0034	16.7058	-0.0015	-0.0178	-0.0022	-0.0016	-0.0024
1309329-1D 50X	-0.0047	0.0010	0.1427	2.7759	-0.0003	-0.0011	16.9432	-0.0005	-0.0082	-0.0018	0.0010	-0.0032
1309329-1L 250X	-0.0081	-0.0019	0.0282	0.5535	-0.0004	-0.0021	3.0293	-0.0008	-0.0095	-0.0012	-0.0013	-0.0011
1309329-1MS 50X	0.0141	0.0092	0.8138	3.5374	0.0096	0.0180	17.8861	0.0095	-0.0003	0.0080	0.0077	0.0081
1309329-1MSD 50X	0.0148	0.0095	0.8426	3.5967	0.0097	0.0181	18.0871	0.0100	-0.0069	0.0086	0.0093	0.0083
1309329-2 50X	-0.0076	0.0010	0.1183	2.7816	-0.0004	-0.0009	17.2053	-0.0014	-0.0079	-0.0016	-0.0028	-0.0010
1309329-3 50X	-0.0083	0.0009	0.1088	2.7595	-0.0004	-0.0015	17.0245	-0.0015	-0.0066	-0.0010	-0.0015	-0.0008
1309329-4 50X	-0.0089	0.0010	0.0949	2.7767	-0.0003	-0.0019	17.3386	-0.0015	-0.0055	-0.0001	-0.0021	0.0009
CCV	19.1859	0.5087	50.9518	47.4575	0.9599	0.9981	51.2316	1.0230	4.7428	0.9466	0.9296	0.9550
CCB	-0.0021	-0.0025	-0.0051	0.0319	0.0000	0.0009	0.0821	-0.0017	-0.0024	-0.0005	-0.0013	-0.0001
CRI	0.1914	0.0140	4.0668	5.0289	0.0329	0.0216	4.1689	0.0881	0.1846	0.0067	0.0079	0.0060
ICSA	107.0431	-0.0022	-0.0109	258.5075	0.0013	0.0003	0.0816	0.0010	-0.0032	-0.0005	0.0060	-0.0038
ICSAB	105.0130	1.0717	-0.0132	253.8115	0.4718	0.9670	0.0633	0.9743	0.9425	0.0491	0.0477	0.0498
CCV	19.4297	0.5050	50.8043	47.7981	0.9716	1.0080	51.4254	1.0324	4.7235	0.9511	0.9361	0.9585

Sample Id1	Fe	Li	K	Mg	Mn	Mo	Na	Ni	P	Pb	Pb I	Pb II
CCB	0.0033	-0.0025	0.0106	0.0451	0.0001	-0.0001	0.0795	-0.0020	-0.0029	0.0001	0.0000	0.0002

Sample Id1	S	Sb	Se	Se I	Se II	Si	Sn	Sr	Ti	Tl	U	V
RINSE	0.0063	-0.0017	0.0009	0.0026	0.0001	-0.0048	-0.0003	-0.0013	-0.0019	0.0086	-0.0166	0.0000
RINSE	0.0028	-0.0028	-0.0003	0.0033	-0.0022	-0.0058	-0.0041	-0.0013	-0.0020	-0.0017	-0.0219	0.0000
MIXAHIGH	0.0329	0.0082	-0.0038	0.0130	-0.0122	-0.0257	0.0031	0.0000	0.0010	0.0076	0.1511	-0.0034
MIXBHIGH	0.0188	2.0367	4.9963	4.9963	4.9964	50.0582	10.0468	10.0116	9.9530	4.9636	-0.0689	5.0234
MIXCHIGH	50.0185	0.0080	0.0037	0.0010	0.0051	0.0498	0.0265	-0.0005	0.0138	0.0092	49.5284	-0.0083
ICV	2.5157	0.2470	0.4901	0.4957	0.4872	2.4202	0.4877	0.2521	0.2396	0.2441	2.5396	0.2480
ICB	-0.0128	-0.0006	-0.0006	-0.0041	0.0011	-0.0135	0.0031	0.0003	-0.0013	0.0006	-0.0269	0.0000
CRI	0.1950	0.1183	0.0089	0.0046	0.0110	0.0893	0.1058	0.0212	0.0192	0.0236	0.1914	0.1053
ICSA	0.0118	0.0067	-0.0004	0.0056	-0.0034	-0.0166	0.0110	0.0010	-0.0003	0.0149	0.0782	-0.0019
ICSAB	0.9879	0.5693	0.0425	0.0550	0.0363	0.8793	0.9783	0.9365	0.8995	0.1017	9.6123	0.4647
CCV	5.0011	0.4844	0.9638	0.9643	0.9636	4.7454	0.9878	0.5019	0.4731	0.4913	4.9137	0.4921
CCB	-0.0023	-0.0028	0.0009	-0.0006	0.0017	-0.0128	0.0026	0.0004	-0.0007	0.0037	-0.0157	0.0000
IP130924-1MB	-0.0058	-0.0018	-0.0005	0.0000	-0.0007	0.0008	0.0012	-0.0001	-0.0016	0.0021	-0.0190	-0.0006
IP130924-1LCS	0.0012	-0.0017	-0.0049	-0.0050	-0.0048	-0.0136	0.0059	-0.0007	-0.0019	-0.0007	-0.0208	-0.0004
IP130924-1LCSD	-0.0093	0.0018	-0.0018	-0.0036	-0.0008	-0.0107	0.0077	-0.0007	-0.0020	0.0089	-0.0191	-0.0005
1309204-1	1.4816	-0.0041	0.0030	0.0032	0.0030	0.3152	0.0044	0.0241	0.0180	0.0033	-0.0259	0.0016
1309204-2	0.0858	-0.0006	0.0004	-0.0018	0.0015	0.0133	-0.0016	0.0163	0.0004	-0.0033	-0.0235	-0.0001
1309204-3	0.2020	-0.0011	0.0016	0.0046	0.0001	0.0111	-0.0059	0.0388	0.0006	-0.0070	-0.0239	-0.0002
1309293-1	0.3359	-0.0014	-0.0036	-0.0065	-0.0021	0.0153	-0.0012	0.0354	0.0016	-0.0015	-0.0183	0.0000
1309293-2	0.3570	-0.0012	-0.0012	-0.0054	0.0008	0.0141	0.0016	0.0156	0.0015	0.0004	-0.0227	-0.0002
1309293-3	1.3299	-0.0005	-0.0008	-0.0059	0.0017	0.1762	0.0012	0.0196	0.0136	0.0031	-0.0202	0.0008
MS SPIKE 100X	-0.0058	0.0275	0.0933	0.0966	0.0917	-0.0076	0.4699	0.1030	1.7950	0.0036	-0.0156	0.1004
CCV	4.9268	0.4828	0.9616	0.9745	0.9551	4.6526	0.9736	0.5013	0.4594	0.4948	4.9283	0.4840
CCB	0.0012	-0.0012	-0.0017	-0.0033	-0.0009	-0.0184	0.0035	-0.0001	-0.0017	-0.0029	-0.0147	-0.0002
EX130923-2MB	-0.0164	-0.0028	0.0024	0.0003	0.0035	-0.0024	0.0045	-0.0012	-0.0022	-0.0011	-0.0150	-0.0002
EX130923-2LCS	-0.0093	0.4706	1.8605	1.8337	1.8740	1.0622	0.4992	0.4967	0.4546	2.1669	-0.0340	0.4928
1309247-3	0.0365	0.0014	0.0084	0.0005	0.0123	0.1000	0.0063	0.0897	-0.0018	0.0027	-0.0296	-0.0003
1309247-3D	0.0224	0.0002	0.0025	0.0009	0.0033	0.1046	0.0096	0.0909	-0.0023	0.0003	-0.0250	-0.0004
1309247-3L 5X	-0.0023	0.0001	-0.0006	0.0011	-0.0014	0.0129	0.0045	0.0180	-0.0018	0.0000	-0.0204	-0.0002
1309247-3MS	0.0400	0.4706	1.8578	1.8277	1.8728	1.1579	0.4879	0.5828	0.4425	2.1639	-0.0289	0.4785
1309247-3MSD	0.0365	0.4746	1.8724	1.8293	1.8938	1.1556	0.4884	0.5812	0.4440	2.1689	-0.0323	0.4811
1309247-4	0.0329	0.0002	0.0059	0.0092	0.0043	0.1069	-0.0016	0.0949	-0.0022	-0.0009	-0.0218	-0.0002
F130923-1MB	-0.0199	-0.0006	0.0000	0.0041	-0.0021	-0.0128	0.0021	-0.0012	-0.0018	-0.0005	-0.0245	-0.0005
F130923-1LCS	10.4355	0.5077	2.1238	2.0920	2.1396	1.0646	0.5161	0.5191	0.4708	2.2632	-0.0323	0.5111
CCV	4.9055	0.4843	0.9838	0.9716	0.9899	4.6228	0.9760	0.5024	0.4551	0.5102	4.9124	0.4828
CCB	-0.0023	0.0011	0.0047	0.0018	0.0062	-0.0172	0.0031	-0.0001	-0.0013	0.0030	-0.0218	-0.0003
F130923-1LCSD	10.2184	0.4978	2.0989	2.0606	2.1180	1.0629	0.5100	0.5155	0.4685	2.2219	-0.0262	0.5085
1309158-1	1.6051	-0.0014	0.0035	0.0002	0.0052	4.0901	0.0002	0.4269	-0.0013	0.0049	-0.0414	-0.0010
1309217-2	0.1492	-0.0005	0.0031	0.0034	0.0030	3.3941	0.0054	0.1273	-0.0015	0.0029	-0.0292	-0.0002
1309218-2	1.0161	0.0007	0.0027	0.0022	0.0030	1.4053	0.0031	0.0639	-0.0005	0.0027	-0.0241	-0.0002
1309218-2L 5X	0.1914	0.0002	0.0001	-0.0002	0.0002	0.2719	0.0045	0.0122	-0.0019	0.0055	-0.0172	-0.0004
1309218-2A	1.0337	0.4877	1.9795	1.9592	1.9897	2.5345	0.4888	0.5763	0.4561	2.0841	-0.0315	0.4953
1309218-8	6.3649	-0.0008	0.0088	0.0024	0.0120	0.7886	0.0002	0.0462	0.0007	0.0040	-0.0287	-0.0002
1309218-12	26.4679	0.0161	0.0069	0.0090	0.0058	2.7648	0.0101	0.2239	-0.0009	0.0016	0.0244	-0.0023
1309258-1	3.9397	-0.0011	0.0001	0.0033	-0.0016	9.8524	-0.0021	0.1292	0.0125	0.0020	-0.0106	-0.0001
1309258-1D	3.9326	-0.0011	0.0014	0.0059	-0.0009	10.0140	0.0016	0.1288	0.0149	0.0007	-0.0123	0.0006
CCV	4.8843	0.4848	0.9819	0.9837	0.9810	4.6666	0.9836	0.5027	0.4513	0.5145	4.9179	0.4823
CCB	-0.0234	0.0012	-0.0005	0.0000	-0.0007	-0.0173	0.0077	0.0000	-0.0017	0.0092	-0.0197	-0.0001
1309258-1L 5X	0.7623	-0.0017	-0.0025	-0.0023	-0.0027	1.9303	0.0077	0.0254	0.0010	0.0064	-0.0276	-0.0007
1309258-1MS	14.2082	0.4998	2.0955	2.0750	2.1058	11.1208	0.5067	0.6377	0.4759	2.2374	-0.0182	0.5027

Sample Id1	S	Sb	Se	Se I	Se II	Si	Sn	Sr	Ti	Tl	U	V
1309258-1MSD	13.7546	0.5010	2.0943	2.0850	2.0989	10.9141	0.5076	0.6377	0.4740	2.2478	-0.0222	0.5008
1309279-1	50.3032	0.0015	0.0050	0.0069	0.0040	6.8249	0.0091	0.2910	0.0038	0.0079	-0.0266	0.0008
1309279-2	24.6002	0.0131	0.0010	0.0041	-0.0006	20.5644	0.0141	0.2984	1.3666	-0.0023	-0.0039	0.0208
1309304-1	0.8187	0.0013	0.0025	0.0039	0.0018	0.8031	0.0021	0.0745	0.0021	-0.0030	-0.0224	-0.0004
IP130924-4MB	-0.0199	-0.0012	0.0026	0.0084	-0.0003	-0.0189	0.0021	-0.0001	-0.0015	0.0019	-0.0306	-0.0008
IP130924-4LCS	9.9729	0.4829	1.9802	1.9790	1.9808	1.0949	0.4851	0.4992	0.4428	2.1747	-0.0310	0.4854
1309329-1	519.2564	-0.0012	0.0628	0.0562	0.0661	8.3372	-0.0012	10.5079	0.0009	0.0057	0.1584	0.0022
1309329-1D	523.8995	-0.0023	0.0552	0.0548	0.0554	8.4103	0.0012	10.5887	0.0006	0.0070	0.1621	0.0020
CCV	5.0117	0.4891	0.9841	0.9721	0.9901	4.6941	0.9878	0.5073	0.4517	0.5238	4.9029	0.4870
CCB	0.0188	0.0012	0.0024	0.0074	0.0000	-0.0174	0.0031	0.0007	-0.0013	0.0060	-0.0147	-0.0001
1309329-1L 5X	112.3639	-0.0010	0.0092	0.0129	0.0074	1.7644	-0.0063	2.3375	-0.0011	0.0079	0.0107	-0.0002
1309329-1MS	525.2516	0.4570	2.1037	2.0977	2.1068	9.8579	0.4772	10.9378	0.3926	2.0667	0.1570	0.4321
1309329-1MSD	521.2531	0.4589	2.1283	2.1078	2.1385	9.7061	0.4842	10.8708	0.3928	2.0861	0.1621	0.4342
1309329-2	521.7943	0.0007	0.0635	0.0640	0.0632	8.0926	0.0007	10.7195	-0.0002	0.0147	0.1669	0.0021
1309329-3	516.3033	0.0003	0.0579	0.0606	0.0566	7.5588	-0.0021	10.5861	-0.0025	0.0046	0.1622	0.0021
1309329-4	515.6630	0.0024	0.0527	0.0584	0.0499	7.5972	0.0016	10.5775	-0.0028	0.0129	0.1612	0.0023
1309329-5	5.2949	-0.0003	-0.0017	0.0018	-0.0035	4.3947	-0.0035	0.2458	-0.0014	0.0011	-0.0269	0.0038
1309329-6	6.2975	0.0002	0.0043	0.0060	0.0034	22.5047	0.0035	0.1937	0.0001	0.0023	-0.0201	0.0166
1309313-9	68.4735	-0.0001	0.0033	0.0051	0.0023	6.1334	0.0016	0.9803	-0.0022	0.0029	-0.0042	0.0029
1309313-10	91.2351	-0.0014	0.0058	0.0111	0.0031	8.2080	0.0012	1.2038	-0.0021	-0.0007	0.0029	0.0026
CCV	5.0011	0.4924	0.9750	0.9759	0.9745	4.6660	0.9699	0.5082	0.4454	0.5146	4.9159	0.4830
CCB	0.0118	0.0021	0.0028	0.0072	0.0007	-0.0196	0.0096	0.0006	-0.0016	0.0078	-0.0258	-0.0001
1309313-11	88.1174	0.0025	0.0031	0.0116	-0.0012	6.1910	-0.0002	1.1366	-0.0021	-0.0054	0.0130	0.0022
1309313-12	73.7228	0.0003	0.0009	0.0024	0.0001	5.9579	-0.0007	1.1794	-0.0021	-0.0013	0.0613	0.0024
1309315-4	28.1578	-0.0013	0.0016	-0.0002	0.0025	6.3073	-0.0002	0.3077	-0.0019	-0.0041	-0.0198	0.0020
1309315-5	1.3053	0.0037	0.0001	0.0027	-0.0012	5.3894	-0.0007	0.3905	-0.0023	-0.0035	0.0262	0.0010
1309327-1	42.3083	0.0002	0.0044	0.0081	0.0026	17.0888	0.0038	0.5553	0.1768	0.0016	-0.0177	0.0133
1309327-2	42.5909	0.0016	0.0040	0.0036	0.0042	16.8749	0.0024	0.5552	0.1752	0.0023	-0.0019	0.0136
1309327-6	80.7359	-0.0002	0.0064	0.0111	0.0040	7.6615	0.0016	0.8281	0.0243	-0.0014	-0.0139	0.0031
1309327-7	67.8045	0.0016	0.0039	0.0052	0.0033	11.7776	0.0011	0.7141	0.0827	-0.0032	-0.0101	0.0062
1309327-10	41.8422	-0.0018	0.0048	0.0088	0.0029	5.3350	-0.0035	0.5453	-0.0019	-0.0039	-0.0154	0.0021
1309327-11	41.1673	0.0007	0.0010	0.0031	0.0000	5.2419	-0.0021	0.5330	-0.0017	0.0008	-0.0188	0.0013
CCV	4.9161	0.4875	0.9700	0.9677	0.9712	4.6470	0.9793	0.5066	0.4752	0.5133	4.8990	0.4807
CCB	0.0048	0.0005	0.0009	-0.0018	0.0023	-0.0169	-0.0054	0.0003	-0.0014	0.0082	-0.0208	-0.0002
1309327-12	77.5063	0.0017	0.0051	0.0056	0.0048	5.5304	0.0007	0.8138	-0.0023	-0.0076	-0.0174	0.0015
1309327-13	67.5791	0.0004	0.0051	0.0044	0.0054	5.8983	0.0045	0.7221	-0.0021	-0.0030	-0.0198	0.0017
1309329-1 50X	10.7701	-0.0002	0.0052	0.0082	0.0037	0.1609	-0.0016	0.2325	-0.0019	0.0058	-0.0194	-0.0008
1309329-1D 50X	10.8983	0.0008	-0.0002	0.0039	-0.0023	0.1617	-0.0026	0.2365	-0.0019	0.0053	-0.0157	-0.0001
1309329-1L 250X	2.1273	-0.0018	0.0014	0.0049	-0.0003	0.0171	0.0026	0.0458	-0.0019	0.0007	-0.0241	-0.0006
1309329-1MS 50X	11.1440	0.0090	0.0377	0.0368	0.0382	0.1947	0.0091	0.2465	0.0074	0.0411	-0.0211	0.0093
1309329-1MSD 50X	11.4112	0.0091	0.0371	0.0345	0.0385	0.1953	0.0213	0.2503	0.0079	0.0439	-0.0238	0.0095
1309329-2 50X	10.9944	-0.0017	0.0007	0.0009	0.0007	0.1546	0.0031	0.2387	-0.0019	0.0067	-0.0204	-0.0003
1309329-3 50X	10.9802	0.0043	0.0008	0.0043	-0.0009	0.1458	0.0031	0.2367	-0.0019	0.0004	-0.0204	-0.0003
1309329-4 50X	11.0906	-0.0010	0.0025	0.0043	0.0017	0.1502	0.0063	0.2408	-0.0021	0.0053	-0.0211	-0.0007
CCV	4.8489	0.4831	0.9698	0.9682	0.9706	4.5791	0.9727	0.5053	0.4652	0.5169	4.9037	0.4743
CCB	-0.0023	0.0006	0.0009	0.0019	0.0004	-0.0187	0.0026	0.0003	-0.0016	0.0002	-0.0225	-0.0004
CRI	0.1879	0.1237	0.0126	0.0179	0.0100	0.0834	0.1054	0.0216	0.0194	0.0255	0.1935	0.1049
ICSA	-0.0128	0.0041	0.0014	0.0110	-0.0035	-0.0241	0.0059	0.0010	-0.0003	0.0016	0.0763	0.0000
ICSAB	0.9456	0.5816	0.0403	0.0487	0.0361	0.8578	0.9845	0.9534	0.9054	0.1055	9.6139	0.4633
CCV	4.8843	0.4875	0.9596	0.9617	0.9585	4.6095	0.9784	0.5060	0.4681	0.5242	4.8741	0.4787

Sample Id1	S	Sb	Se	Se I	Se II	Si	Sn	Sr	Ti	Tl	U	V
CCB	-0.0128	-0.0009	-0.0009	-0.0089	0.0030	-0.0225	0.0031	0.0004	-0.0014	0.0000	-0.0204	-0.0001

Sample Id1	Zn	Zr
RINSE	-0.0020	0.0021
RINSE	-0.0027	0.0020
MIXAHIGH	-0.0038	0.0087
MIXBHIGH	10.0307	-0.0115
MIXCHIGH	0.0027	4.9902
ICV	0.4938	0.5008
ICB	0.0015	0.0020
CRI	0.0414	0.0533
ICSA	0.0147	0.0046
ICSAB	0.8727	0.4640
CCV	1.0085	0.9823
CCB	0.0034	0.0027
IP130924-1MB	0.0202	0.0020
IP130924-1LCS	0.0107	0.0012
IP130924-1LCSD	0.0151	0.0012
1309204-1	0.5354	0.0066
1309204-2	0.0766	0.0035
1309204-3	0.1814	0.0040
1309293-1	0.2566	0.0039
1309293-2	0.1950	0.0043
1309293-3	0.7729	0.0055
MS SPIKE 100X	1.9504	0.0035
CCV	0.9637	0.9725
CCB	0.0009	0.0015
EX130923-2MB	0.0020	0.0015
EX130923-2LCS	0.4952	0.0050
1309247-3	0.1713	0.0012
1309247-3D	0.1748	0.0010
1309247-3L 5X	0.0367	0.0011
1309247-3MS	0.6309	0.0020
1309247-3MSD	0.6420	0.0015
1309247-4	0.2275	0.0013
F130923-1MB	-0.0003	0.0012
F130923-1LCS	0.5144	0.0009
CCV	0.9976	0.9710
CCB	0.0013	0.0019
F130923-1LCSD	0.5086	0.0039
1309158-1	0.0085	-0.0001
1309217-2	0.0016	0.0015
1309218-2	0.0085	0.0009
1309218-2L 5X	0.0039	0.0011
1309218-2A	0.4948	0.0008
1309218-8	0.0066	0.0009
1309218-12	0.1175	-0.0072
1309258-1	0.0211	-0.0006
1309258-1D	0.0218	-0.0004
CCV	0.9884	0.9713
CCB	-0.0006	0.0015
1309258-1L 5X	0.0020	0.0011
1309258-1MS	0.5194	0.0029

Sample Id1	Zn	Zr
1309258-1MSD	0.5144	0.0003
1309279-1	0.6217	0.0001
1309279-2	1.5815	-0.0008
1309304-1	1.2646	0.0011
IP130924-4MB	0.0005	0.0009
IP130924-4LCS	0.5688	0.0015
1309329-1	0.0245	-0.0001
1309329-1D	0.0112	0.0000
CCV	0.9842	0.9781
CCB	0.0016	0.0020
1309329-1L 5X	0.0062	0.0013
1309329-1MS	0.4309	0.0031
1309329-1MSD	0.4286	0.0007
1309329-2	0.0032	-0.0001
1309329-3	0.0032	0.0000
1309329-4	0.0016	-0.0003
1309329-5	-0.0022	0.0004
1309329-6	0.0085	-0.0029
1309313-9	0.0039	0.0003
1309313-10	0.0062	-0.0002
CCV	0.9695	0.9752
CCB	0.0020	0.0014
1309313-11	-0.0006	0.0020
1309313-12	0.0634	0.0014
1309315-4	0.0013	0.0006
1309315-5	0.0020	0.0006
1309327-1	0.0237	0.0003
1309327-2	0.0256	0.0005
1309327-6	0.0104	0.0013
1309327-7	0.1675	0.0016
1309327-10	0.0020	0.0005
1309327-11	0.0108	0.0002
CCV	0.9599	0.9737
CCB	0.0016	0.0021
1309327-12	0.0058	0.0029
1309327-13	0.1263	0.0011
1309329-1 50X	0.0001	0.0012
1309329-1D 50X	-0.0003	0.0013
1309329-1L 250X	0.0005	0.0011
1309329-1MS 50X	0.0077	0.0010
1309329-1MSD 50X	0.0104	0.0010
1309329-2 50X	-0.0006	0.0011
1309329-3 50X	0.0013	0.0009
1309329-4 50X	0.0009	0.0008
CCV	0.9360	0.9666
CCB	0.0013	0.0018
CRI	0.0409	0.0539
ICSA	0.0123	0.0045
ICSAB	0.8545	0.4658
CCV	0.9480	0.9723

Sample Id1	Zn	Zr
CCB	0.0020	0.0018

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:50
SampleId1 : BLANK **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:17:50
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE1

Raw intensities

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	43.100	112.000	83.000	36.200	12.800	286.100	69.700	34.100	51.000
#2	43.400	111.900	83.800	36.100	13.000	285.200	69.700	34.000	50.600
Mean	**43.250**	**111.950**	**83.400**	**36.150**	**12.900**	**285.650**	**69.700**	**34.050**	**50.800**
%RSD	0.490	0.063	0.678	0.196	1.096	0.223	0.000	0.208	0.557

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	48.700	81.800	34.800	24.200	340.900	58.000	47.100	5.500	43.600
#2	49.200	82.600	34.800	24.700	342.000	58.200	47.100	5.500	42.800
Mean	**48.950**	**82.200**	**34.800**	**24.450**	**341.450**	**58.100**	**47.100**	**5.500**	**43.200**
%RSD	0.722	0.688	0.000	1.446	0.228	0.243	0.000	0.000	1.309

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	80.500	92.900	46.600	971.800	303.000	5.500	66.600	200.200	129.800
#2	81.000	95.000	45.900	978.000	307.600	5.300	66.500	203.300	129.000
Mean	**80.750**	**93.950**	**46.250**	**974.900**	**305.300**	**5.400**	**66.550**	**201.750**	**129.400**
%RSD	0.438	1.581	1.070	0.450	1.065	2.619	0.106	1.087	0.437

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	180.900	35.400	25.000	81.800	87.800	72.900	58.300	10.000	105.000
#2	182.900	35.600	24.900	82.200	89.800	74.100	58.400	10.000	104.400
Mean	**181.900**	**35.500**	**24.950**	**82.000**	**88.800**	**73.500**	**58.350**	**10.000**	**104.700**
%RSD	0.777	0.398	0.283	0.345	1.593	1.154	0.121	0.000	0.405

	Pb	**Se**
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:50
SampleId1 : RL **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:19:27
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE2

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	47.200	138.900	85.200	101.500	20.800	350.300	73.800	99.800	58.100
#2	47.100	138.600	84.400	100.200	20.800	348.500	73.600	100.400	57.100
Mean	**47.150**	**138.750**	**84.800**	**100.850**	**20.800**	**349.400**	**73.700**	**100.100**	**57.600**
%RSD	0.150	0.153	0.667	0.911	0.000	0.364	0.192	0.424	1.228

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	51.700	90.300	38.000	65.400	621.900	415.800	97.200	8.100	54.200
#2	52.000	89.400	37.700	64.600	621.400	417.900	97.000	8.200	54.300
Mean	**51.850**	**89.850**	**37.850**	**65.000**	**621.650**	**416.850**	**97.100**	**8.150**	**54.250**
%RSD	0.409	0.708	0.560	0.870	0.057	0.356	0.146	0.868	0.130

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	1268.200	111.100	59.200	1006.100	319.100	6.300	72.000	202.100	132.400
#2	1273.400	111.700	60.100	991.700	314.400	6.200	71.100	205.500	134.400
Mean	**1270.800**	**111.400**	**59.650**	**998.900**	**316.750**	**6.250**	**71.550**	**203.800**	**133.400**
%RSD	0.289	0.381	1.067	1.019	1.049	1.131	0.889	1.180	1.060

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	226.000	37.300	185.400	181.100	92.400	93.500	65.300	11.200	140.700
#2	226.300	38.100	186.400	182.200	92.400	93.900	64.800	11.100	140.900
Mean	**226.150**	**37.700**	**185.900**	**181.650**	**92.400**	**93.700**	**65.050**	**11.150**	**140.800**
%RSD	0.094	1.500	0.380	0.428	0.000	0.302	0.544	0.634	0.100

	Pb	Se
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:51
SampleId1 : RL2 **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:21:03
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE3

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	54.800	189.600	93.600	227.000	35.900	464.500	79.000	230.700	70.200
#2	54.300	189.600	90.600	228.200	35.600	465.000	78.600	230.300	71.000
Mean	**54.550**	**189.600**	**92.100**	**227.600**	**35.750**	**464.750**	**78.800**	**230.500**	**70.600**
%RSD	0.648	0.000	2.303	0.373	0.593	0.076	0.359	0.123	0.801

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo

	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	57.200	104.100	42.600	143.500	1166.400	1125.300	196.200	12.700	75.200
#2	57.600	104.200	42.500	142.500	1167.300	1126.000	195.900	12.600	76.900
Mean	**57.400**	**104.150**	**42.550**	**143.000**	**1166.850**	**1125.650**	**196.050**	**12.650**	**76.050**
%RSD	0.493	0.068	0.166	0.494	0.055	0.044	0.108	0.559	1.581

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	3556.600	144.200	83.600	1018.300	328.900	8.200	79.900	205.000	141.700
#2	3566.700	145.800	82.900	1024.100	330.000	8.200	80.600	208.700	143.600
Mean	**3561.650**	**145.000**	**83.250**	**1021.200**	**329.450**	**8.200**	**80.250**	**206.850**	**142.650**
%RSD	0.201	0.780	0.595	0.402	0.236	0.000	0.617	1.265	0.942

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	306.900	40.300	446.400	369.900	100.800	133.800	74.800	13.600	221.300
#2	309.900	40.400	445.900	369.500	100.600	134.400	75.600	13.200	220.700
Mean	**308.400**	**40.350**	**446.150**	**369.700**	**100.700**	**134.100**	**75.200**	**13.400**	**221.000**
%RSD	0.688	0.175	0.079	0.077	0.140	0.316	0.752	2.111	0.192

	Pb	**Se**
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:51
SampleId1 : B3 **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:22:40
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE4

Raw intensities

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	70.400	113.800	107.400	147.300	313.700	712.700	70.500	34.600	260.200
#2	71.100	113.200	105.800	147.600	314.300	711.400	70.500	34.600	261.900
Mean	**70.750**	**113.500**	**106.600**	**147.450**	**314.000**	**712.050**	**70.500**	**34.600**	**261.050**
%RSD	0.700	0.374	1.061	0.144	0.135	0.129	0.000	0.000	0.460

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	100.800	328.000	126.500	25.000	347.300	59.200	47.900	90.900	133.800
#2	101.000	328.000	126.200	24.800	346.200	59.200	47.700	91.200	134.000
Mean	**100.900**	**328.000**	**126.350**	**24.900**	**346.750**	**59.200**	**47.800**	**91.050**	**133.900**
%RSD	0.140	0.000	0.168	0.568	0.224	0.000	0.296	0.233	0.106

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading

#1	80.800	346.500	148.300	1275.200	472.100	5.300	76.200	220.000	165.500
#2	79.700	346.300	145.400	1279.300	473.800	5.500	77.300	221.000	165.000
Mean	**80.250**	**346.400**	**146.850**	**1277.250**	**472.950**	**5.400**	**76.750**	**220.500**	**165.250**
%RSD	0.969	0.041	1.396	0.227	0.254	2.619	1.013	0.321	0.214

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	511.900	47.300	1074.700	884.500	111.200	74.600	160.500	26.000	130.100
#2	512.600	46.600	1077.000	888.900	111.900	74.500	159.300	25.800	125.200
Mean	**512.250**	**46.950**	**1075.850**	**886.700**	**111.550**	**74.550**	**159.900**	**25.900**	**127.650**
%RSD	0.097	1.054	0.151	0.351	0.444	0.095	0.531	0.546	2.714

	Pb	**Se**
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:51
SampleId1 : B2 **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:24:16
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE5

Raw intensities

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	315.700	117.800	302.600	1137.400	2978.200	4573.000	73.000	35.400	2162.600
#2	315.100	118.000	302.600	1135.500	2976.700	4576.900	74.900	35.700	2159.300
Mean	**315.400**	**117.900**	**302.600**	**1136.450**	**2977.450**	**4574.950**	**73.950**	**35.550**	**2160.950**
%RSD	0.135	0.120	0.000	0.118	0.036	0.060	1.817	0.597	0.108

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	568.800	2548.900	953.000	26.900	355.700	61.000	49.300	863.100	957.000
#2	568.900	2545.500	949.400	27.000	355.000	61.300	49.300	863.100	956.600
Mean	**568.850**	**2547.200**	**951.200**	**26.950**	**355.350**	**61.150**	**49.300**	**863.100**	**956.800**
%RSD	0.012	0.094	0.268	0.262	0.139	0.347	0.000	0.000	0.030

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	82.100	2598.100	1066.800	3926.800	1942.200	5.500	165.000	421.800	478.000
#2	82.100	2589.600	1066.800	3917.500	1989.000	5.400	164.500	424.000	485.100
Mean	**82.100**	**2593.850**	**1066.800**	**3922.150**	**1965.600**	**5.450**	**164.750**	**422.900**	**481.550**
%RSD	0.000	0.232	0.000	0.168	1.684	1.297	0.215	0.368	1.043

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	3450.200	147.100	10459.700	8110.800	311.000	77.900	1069.500	171.800	140.000

#2	3447.600	146.500	10452.300	8126.600	307.800	78.000	1068.800	171.900	132.900
Mean	**3448.900**	**146.800**	**10456.000**	**8118.700**	**309.400**	**77.950**	**1069.150**	**171.850**	**136.450**
%RSD	0.053	0.289	0.050	0.138	0.731	0.091	0.046	0.041	3.679

	Pb	**Se**
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:51
SampleId1 : B1 **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:25:52
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE6

Raw intensities

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	2697.400	164.700	2178.000	10737.800	28113.000	40969.500	107.700	34.500	19756.400
#2	2719.000	165.700	2197.500	10793.700	28152.400	41381.100	111.200	34.800	19902.600
Mean	**2708.200**	**165.200**	**2187.750**	**10765.750**	**28132.700**	**41175.300**	**109.450**	**34.650**	**19829.500**
%RSD	0.564	0.428	0.630	0.367	0.099	0.707	2.261	0.612	0.521

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	5109.200	23765.600	9182.500	41.000	349.900	68.900	57.100	7927.400	8822.500
#2	5152.600	23981.200	9182.100	41.300	354.000	69.800	57.500	8001.200	8881.300
Mean	**5130.900**	**23873.400**	**9182.300**	**41.150**	**351.950**	**69.350**	**57.300**	**7964.300**	**8851.900**
%RSD	0.598	0.639	0.003	0.516	0.824	0.918	0.494	0.655	0.470

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	100.100	24145.700	9131.500	29523.700	16494.000	6.500	1023.600	2386.100	3542.800
#2	99.700	24355.700	9143.900	29750.500	16601.500	6.900	1030.700	2385.800	3604.800
Mean	**99.900**	**24250.700**	**9137.700**	**29637.100**	**16547.750**	**6.700**	**1027.150**	**2385.950**	**3573.800**
%RSD	0.283	0.612	0.096	0.541	0.459	4.222	0.489	0.009	1.227

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	31289.500	1118.400	93435.500	78103.900	2252.500	93.200	9907.300	1525.300	159.500
#2	31511.800	1124.800	93604.300	78609.300	2265.000	94.200	9978.100	1550.600	156.900
Mean	**31400.650**	**1121.600**	**93519.900**	**78356.600**	**2258.750**	**93.700**	**9942.700**	**1537.950**	**158.200**
%RSD	0.501	0.403	0.128	0.456	0.391	0.755	0.504	1.163	1.162

	Pb	**Se**
	Reading	Reading
#1		
#2		

Mean	**0.000**	**0.000**	**ser: STEVE WORKMAN**
%RSD	0.000	0.000	

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:51
SampleId1 : A5 **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:27:28
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE7

Raw intensities

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	45.000	1042.300	87.300	54.000	17.700	293.500	71.600	1313.600	55.600
#2	45.300	1049.400	86.000	50.900	16.600	290.700	69.700	1311.300	54.900
Mean	**45.150**	**1045.850**	**86.650**	**52.450**	**17.150**	**292.100**	**70.650**	**1312.450**	**55.250**
%RSD	0.470	0.480	1.061	4.179	4.535	0.678	1.902	0.124	0.896

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	50.800	90.600	36.200	1342.000	1044.200	2068.400	976.900	7.100	58.200
#2	50.600	88.700	36.000	1340.600	1048.500	2082.800	977.500	6.900	53.300
Mean	**50.700**	**89.650**	**36.100**	**1341.300**	**1046.350**	**2075.600**	**977.200**	**7.000**	**55.750**
%RSD	0.279	1.499	0.392	0.074	0.291	0.491	0.043	2.020	6.215

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	2032.400	99.800	49.600	1018.700	329.200	5.200	71.400	208.100	136.100
#2	2051.700	99.700	48.700	1004.100	324.800	5.300	71.200	204.500	136.800
Mean	**2042.050**	**99.750**	**49.150**	**1011.400**	**327.000**	**5.250**	**71.300**	**206.300**	**136.450**
%RSD	0.668	0.071	1.295	1.021	0.951	1.347	0.198	1.234	0.363

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	215.500	37.000	41.300	149.000	93.000	81.200	63.400	10.700	109.300
#2	205.100	37.300	37.300	134.500	91.600	80.200	62.500	10.400	109.000
Mean	**210.300**	**37.150**	**39.300**	**141.750**	**92.300**	**80.700**	**62.950**	**10.550**	**109.150**
%RSD	3.497	0.571	7.197	7.233	1.073	0.876	1.011	2.011	0.194

	Pb	**Se**
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:51
SampleId1 : A4 **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:29:05
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE8

Raw intensities **15:12:53** **User: STEVE WORKMAN**

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	48.800	9371.300	94.900	49.600	14.400	293.500	71.400	12203.300	54.900
#2	48.000	9432.400	94.300	49.100	14.100	293.300	71.100	12148.100	55.500
Mean	**48.400**	**9401.850**	**94.600**	**49.350**	**14.250**	**293.400**	**71.250**	**12175.700**	**55.200**
%RSD	1.169	0.460	0.448	0.716	1.489	0.048	0.298	0.321	0.769

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	52.500	101.000	36.200	12233.800	8957.400	26501.100	8897.100	8.900	54.900
#2	51.900	100.600	36.200	12221.400	9047.600	26820.200	8935.600	8.900	55.600
Mean	**52.200**	**100.800**	**36.200**	**12227.600**	**9002.500**	**26660.650**	**8916.350**	**8.900**	**55.250**
%RSD	0.813	0.281	0.000	0.072	0.708	0.846	0.305	0.000	0.896

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	23011.000	102.100	50.500	1140.700	355.500	5.600	90.000	230.700	153.000
#2	23237.500	100.800	47.400	1126.800	362.200	5.500	87.400	232.300	154.400
Mean	**23124.250**	**101.450**	**48.950**	**1133.750**	**358.850**	**5.550**	**88.700**	**231.500**	**153.700**
%RSD	0.693	0.906	4.478	0.867	1.320	1.274	2.073	0.489	0.644

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	207.200	40.900	34.200	122.100	105.200	107.900	71.900	12.900	122.000
#2	205.700	40.700	33.800	120.700	104.100	107.400	70.800	13.000	121.100
Mean	**206.450**	**40.800**	**34.000**	**121.400**	**104.650**	**107.650**	**71.350**	**12.950**	**121.550**
%RSD	0.514	0.347	0.832	0.815	0.743	0.328	1.090	0.546	0.524

	Pb	**Se**
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:52
SampleId1 : A3 **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:30:41
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE9

Raw intensities

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	50.500	18352.700	105.200	52.000	14.600	300.800	74.800	23516.000	59.400
#2	49.600	18451.200	105.000	51.600	14.600	300.300	73.600	23474.800	60.200
Mean	**50.050**	**18401.950**	**105.100**	**51.800**	**14.600**	**300.550**	**74.200**	**23495.400**	**59.800**
%RSD	1.272	0.378	0.135	0.546	0.000	0.118	1.144	0.124	0.946

ted: 9/25/2013 15:12:53 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	54.900	107.100	37.200	23052.700	18141.400	57267.800	17254.200	11.700	63.400
#2	55.000	107.400	37.400	23053.300	18237.200	57617.200	17300.600	11.700	64.100
Mean	**54.950**	**107.250**	**37.300**	**23053.000**	**18189.300**	**57442.500**	**17277.400**	**11.700**	**63.750**
%RSD	0.129	0.198	0.379	0.002	0.372	0.430	0.190	0.000	0.776

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	45035.400	105.000	52.300	1282.500	404.800	5.700	109.200	267.200	179.500
#2	45227.600	105.600	52.700	1285.000	404.900	5.700	110.100	269.400	178.400
Mean	**45131.500**	**105.300**	**52.500**	**1283.750**	**404.850**	**5.700**	**109.650**	**268.300**	**178.950**
%RSD	0.301	0.403	0.539	0.138	0.017	0.000	0.580	0.580	0.435

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	215.700	44.700	39.400	128.200	115.400	129.300	79.400	15.400	129.000
#2	216.000	45.600	39.400	128.500	119.800	128.000	78.900	15.600	128.500
Mean	**215.850**	**45.150**	**39.400**	**128.350**	**117.600**	**128.650**	**79.150**	**15.500**	**128.750**
%RSD	0.098	1.410	0.000	0.165	2.646	0.715	0.447	0.912	0.275

	Pb	Se
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:52
SampleId1 : A2 SampleId2 : [STD]
Analysis commenced : 9/25/2013 11:32:18
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE10

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	51.400	35640.800	126.800	57.600	15.500	313.300	77.000	44257.500	66.700
#2	51.800	35535.200	126.900	57.300	15.400	311.200	77.300	44225.000	67.200
Mean	**51.600**	**35588.000**	**126.850**	**57.450**	**15.450**	**312.250**	**77.150**	**44241.250**	**66.950**
%RSD	0.548	0.210	0.056	0.369	0.458	0.476	0.275	0.052	0.528

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	59.900	118.400	38.700	41713.900	35622.300	122031.200	33081.100	17.100	82.500
#2	60.700	118.000	38.800	41720.000	35534.000	121587.400	32983.900	17.100	82.600
Mean	**60.300**	**118.200**	**38.750**	**41716.950**	**35578.150**	**121809.300**	**33032.500**	**17.100**	**82.550**
%RSD	0.938	0.239	0.182	0.010	0.175	0.258	0.208	0.000	0.086

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	82853.600	114.300	57.400	1569.600	490.700	6.500	150.800	334.900	221.100
#2	82431.300	112.000	57.000	1577.300	491.400	6.500	148.900	333.300	223.200
Mean	**82642.450**	**113.150**	**57.200**	**1573.450**	**491.050**	**6.500**	**149.850**	**334.100**	**222.150**
%RSD	0.361	1.437	0.494	0.346	0.101	0.000	0.897	0.339	0.668

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	231.200	53.600	49.800	143.700	144.100	167.300	90.900	20.200	139.000
#2	229.900	53.300	49.800	142.400	141.500	165.900	92.100	20.500	139.100
Mean	**230.550**	**53.450**	**49.800**	**143.050**	**142.800**	**166.600**	**91.500**	**20.350**	**139.050**
%RSD	0.399	0.397	0.000	0.643	1.287	0.594	0.927	1.042	0.051

	Pb	Se
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:52
SampleId1 : A1 **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:33:54
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE11

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	56.600	79840.600	188.300	79.500	18.300	340.900	85.500	95280.100	85.000
#2	55.800	79786.500	184.000	78.300	18.300	338.500	86.800	95061.800	84.200
Mean	**56.200**	**79813.550**	**186.150**	**78.900**	**18.300**	**339.700**	**86.150**	**95170.950**	**84.600**
%RSD	1.007	0.048	1.633	1.075	0.000	0.500	1.067	0.162	0.669

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	75.900	142.100	43.200	81488.700	79433.300	310637.400	74122.700	32.000	135.900
#2	75.500	142.600	43.000	81398.800	79370.300	310346.400	74122.800	32.100	137.200
Mean	**75.700**	**142.350**	**43.100**	**81443.750**	**79401.800**	**310491.900**	**74122.750**	**32.050**	**136.550**
%RSD	0.374	0.248	0.328	0.078	0.056	0.066	0.000	0.221	0.673

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	155828.800	134.600	71.400	2397.500	753.900	7.900	269.000	516.400	352.700
#2	155002.200	135.100	72.000	2396.700	756.300	8.100	269.100	515.900	356.600
Mean	**155415.500**	**134.850**	**71.700**	**2397.100**	**755.100**	**8.000**	**269.050**	**516.150**	**354.650**
%RSD	0.376	0.262	0.592	0.024	0.225	1.768	0.026	0.068	0.778

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr

	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	264.400	77.200	78.200	187.100	222.700	267.100	125.000	35.800	164.300
#2	263.500	76.600	78.000	184.900	228.800	267.300	126.200	35.700	163.700
Mean	**263.950**	**76.900**	**78.100**	**186.000**	**225.750**	**267.200**	**125.600**	**35.750**	**164.000**
%RSD	0.241	0.552	0.181	0.836	1.911	0.053	0.676	0.198	0.259

	Pb	**Se**
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:52
SampleId1 : C3 **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:35:31
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE12

Raw intensities

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	45.300	130.200	85.500	39.100	13.000	291.000	92.500	55.900	50.600
#2	44.400	127.600	84.400	39.300	13.000	290.600	92.500	52.500	51.500
Mean	**44.850**	**128.900**	**84.950**	**39.200**	**13.000**	**290.800**	**92.500**	**54.200**	**51.050**
%RSD	1.419	1.426	0.916	0.361	0.000	0.097	0.000	4.436	1.247

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	48.900	86.300	35.400	55.600	361.300	92.100	66.400	5.700	43.100
#2	48.900	86.400	34.800	48.200	355.000	86.300	64.100	5.700	44.200
Mean	**48.900**	**86.350**	**35.100**	**51.900**	**358.150**	**89.200**	**65.250**	**5.700**	**43.650**
%RSD	0.000	0.082	1.209	10.082	1.244	4.598	2.492	0.000	1.782

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	126.800	97.400	47.200	988.700	309.700	12.500	68.100	201.800	129.600
#2	119.000	95.800	46.500	981.300	312.900	12.400	67.200	199.500	128.400
Mean	**122.900**	**96.600**	**46.850**	**985.000**	**311.300**	**12.450**	**67.650**	**200.650**	**129.000**
%RSD	4.488	1.171	1.057	0.531	0.727	0.568	0.941	0.811	0.658

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	185.200	36.600	25.500	86.900	90.100	155.100	60.400	10.000	338.900
#2	185.800	36.300	25.300	87.100	89.800	155.700	59.800	10.000	347.800
Mean	**185.500**	**36.450**	**25.400**	**87.000**	**89.950**	**155.400**	**60.100**	**10.000**	**343.350**
%RSD	0.229	0.582	0.557	0.163	0.236	0.273	0.706	0.000	1.833

	Pb	**Se**
	Reading	Reading

#1		**ser: STEVE WORKMAN**
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:52
SampleId1 : C2 **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:37:07
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE13

Raw intensities

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	62.400	130.800	84.800	42.900	13.300	317.000	301.300	46.800	52.000
#2	62.400	129.800	85.600	42.800	13.200	315.500	300.200	45.700	52.400
Mean	**62.400**	**130.300**	**85.200**	**42.850**	**13.250**	**316.250**	**300.750**	**46.250**	**52.200**
%RSD	0.000	0.543	0.664	0.165	0.534	0.335	0.259	1.682	0.542

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	51.200	124.300	41.100	35.400	352.600	69.200	84.400	7.000	43.700
#2	51.400	124.900	41.200	34.200	350.700	67.200	83.800	7.100	43.200
Mean	**51.300**	**124.600**	**41.150**	**34.800**	**351.650**	**68.200**	**84.100**	**7.050**	**43.450**
%RSD	0.276	0.341	0.172	2.438	0.382	2.074	0.504	1.003	0.814

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	98.000	101.400	47.100	1034.200	327.600	78.600	69.000	204.300	132.700
#2	95.100	103.100	49.000	1035.800	325.800	78.100	68.800	199.800	132.000
Mean	**96.550**	**102.250**	**48.050**	**1035.000**	**326.700**	**78.350**	**68.900**	**202.050**	**132.350**
%RSD	2.124	1.176	2.796	0.109	0.390	0.451	0.205	1.575	0.374

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	213.600	36.900	28.800	108.500	93.500	890.800	72.600	10.700	3110.400
#2	213.000	37.600	28.600	108.200	89.600	891.700	72.100	10.400	3132.200
Mean	**213.300**	**37.250**	**28.700**	**108.350**	**91.550**	**891.250**	**72.350**	**10.550**	**3121.300**
%RSD	0.199	1.329	0.493	0.196	3.012	0.071	0.489	2.011	0.494

	Pb	**Se**
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:12:52
SampleId1 : C1 **SampleId2 :** **[STD]**
Analysis commenced : 9/25/2013 11:38:44

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE14

Raw intensities

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	235.400	247.400	90.800	76.700	14.200	547.700	2367.000	98.400	66.300
#2	236.100	246.000	90.100	79.600	14.200	544.200	2374.000	98.100	66.300
Mean	**235.750**	**246.700**	**90.450**	**78.150**	**14.200**	**545.950**	**2370.500**	**98.250**	**66.300**
%RSD	0.210	0.401	0.547	2.624	0.000	0.453	0.209	0.216	0.000

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	70.000	485.700	94.500	69.300	355.400	71.200	378.900	18.000	47.900
#2	69.700	487.000	95.000	68.700	356.000	70.800	378.800	18.000	47.500
Mean	**69.850**	**486.350**	**94.750**	**69.000**	**355.700**	**71.000**	**378.850**	**18.000**	**47.700**
%RSD	0.304	0.189	0.373	0.615	0.119	0.398	0.019	0.000	0.593

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	98.800	140.700	58.000	1410.800	470.600	712.800	77.300	224.200	140.700
#2	98.100	138.500	58.500	1415.300	477.400	719.300	76.700	222.300	141.700
Mean	**98.450**	**139.600**	**58.250**	**1413.050**	**474.000**	**716.050**	**77.000**	**223.250**	**141.200**
%RSD	0.503	1.114	0.607	0.225	1.014	0.642	0.551	0.602	0.501

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading	Reading
#1	470.300	40.800	46.800	313.500	102.600	8143.400	184.300	11.400	30516.400
#2	471.900	40.900	46.800	314.300	103.800	8158.000	185.900	11.300	30549.200
Mean	**471.100**	**40.850**	**46.800**	**313.900**	**103.200**	**8150.700**	**185.100**	**11.350**	**30532.800**
%RSD	0.240	0.173	0.000	0.180	0.822	0.127	0.611	0.623	0.076

	Pb	Se
	Reading	Reading
#1		
#2		
Mean	**0.000**	**0.000**
%RSD	0.000	0.000

Line calibration information

Analyte	Reporting name	C0	C1	C2	C3	Correlation coefficient	Low limit	High limit	Date of last regression
Ag 328.068	Ag	-0.0003882	0.0007764	0.0	0	1.0000	0.400	2527.700	9/25/2013 11:40:05
Al 308.215	Al	-0.4220321	0.005289	0.0000000	0	0.99733	72.950	74171.850	9/25/2013 11:40:06
As 189.042/2	As	0.011477	0.0025386	0.0000001	0	1.0000	-5.000	1859.500	9/25/2013 11:40:06
B 249.678/2	B	-0.0154859	0.0010655	0.0	0	1.0000	2.150	9183.500	9/25/2013 11:40:06
Ba 493.409	Ba	-0.0016406	0.0003901	0.0	0	1.0000	2.100	24164.400	9/25/2013 11:40:06
Be 313.042	Be	-0.0070509	0.0000233	0.0	0	1.0000	285.650	41175.300	9/25/2013 11:40:06
Bi 223.061	Bi	-0.0004419	0.0026386	0.0	0	1.0000	-0.350	1894.200	9/25/2013 11:40:06
Ca 317.933	Ca	-0.0106484	0.0040753	0.0000000	0	1.0000	15.900	91106.850	9/25/2013 11:40:06
Cd 226.502/2	Cd	-0.000763	0.000285	0.0	0	1.0000	2.300	16287.850	9/25/2013 11:40:06
Co 228.616	Co	0.0004116	0.0009878	0.0	0	1.0000	-0.750	4943.000	9/25/2013 11:40:07
Cr 267.716	Cr	-0.0003317	0.0004115	0.0	0	1.0000	0.200	23374.300	9/25/2013 11:40:07
Cu 324.753	Cu	-0.016077	0.0011949	0.0	0	1.0000	12.900	8366.250	9/25/2013 11:40:07
Fe 259.94	Fe	-0.0173311	0.0014694	0.0000000	0	0.99932	5.750	79860.500	9/25/2013 11:40:07
K 766.491	K	-0.6292168	0.0026194	0.0	0	0.99995	341.450	79401.800	9/25/2013 11:40:07
Li 670.784	Li	-0.0046363	0.0000347	0.0	0	0.9978	58.100	310491.900	9/25/2013 11:40:07
Mg 279.078	Mg	0.0095775	0.0057359	0.0000000	0	1.0000	0.050	72036.700	9/25/2013 11:40:07
Mn 257.610	Mn	-0.0007302	0.0011754	0.0000000	0	1.0000	0.150	7827.350	9/25/2013 11:40:08
Mo 202.030/2	Mo	-0.00305	0.0012176	0.0	0	1.0000	0.750	7880.750	9/25/2013 11:40:08
Na 588.995	Na	0.3531129	0.0004952	0.0	0	0.99979	80.750	155415.500	9/25/2013 11:40:08
Ni 231.604	Ni	-0.0032226	0.0004945	0.0	0	1.0000	2.700	19498.450	9/25/2013 11:40:08
P 178.287/2	P	-0.004767	0.0049222	0.0000001	0	1.0000	-0.350	8903.150	9/25/2013 11:40:08
Pb 220.351	Pb I	0.0017727	0.0003533	0.0	0	1.0000	-14.150	27540.550	9/25/2013 11:40:08
Pb 220.352/2	Pb II	-0.0041864	0.0006324	0.0	0	1.0000	4.600	15544.650	9/25/2013 11:40:08
S 182.04/2	S	-0.0727222	0.0704352	0.0000025	0	1.0000	0.950	693.650	9/25/2013 11:40:08
Sb 206.838/2	Sb	-0.0024108	0.0024886	0.0000001	0	1.0000	1.450	790.300	9/25/2013 11:40:09
Se 196.021	Se I	0.0047292	0.0023231	0.0000000	0	1.0000	-0.300	2103.450	9/25/2013 11:40:09
Se 196.021/2	Se II	-0.0038417	0.0014668	0.0	0	1.0000	1.450	3346.200	9/25/2013 11:40:09
Si 288.158	Si	-0.1728506	0.0015522	0.0	0	1.0000	102.450	56968.550	9/25/2013 11:40:09
Sn 189.989	Sn	0.0039908	0.0093849	0.0000002	0	1.0000	-1.050	9709.750	9/25/2013 11:40:09
Sr 421.552	Sr	-0.0046412	0.0001114	0.0	0	1.0000	7.600	170730.050	9/25/2013 11:40:09

Ti 334.941	Ti	-0.0011573	0.0001287	0.0	0	1.0000	-6.050	102281.250	9/25/2013 11:40:09
Tl 190.864/2	Tl	0.0130633	0.0026136	0.0000000	0	1.0000	-6.250	1863.250	9/25/2013 11:40:10
U 385.958	U	-0.02043	0.0064629	0.0	0	1.0000	-0.050	7690.050	9/25/2013 11:40:10
V 292.402	V	-0.0006242	0.0005082	0.0	0	1.0000	0.700	9611.350	9/25/2013 11:40:10
Zn 206.2	Zn	-0.0014033	0.0067693	0.0000003	0	1.0000	0.000	1385.850	9/25/2013 11:40:10
Zr 339.198	Zr	0.0008377	0.0001714	0.0	0	1.0000	3.000	29398.350	9/25/2013 11:40:11

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:23
SampleId1 : MIXAHIGH SampleId2 : [CV]
Analysis commenced : 9/25/2013 11:41:50
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE11

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00115	504.63557	-0.00223	-0.01037	-0.00039	0.00089	0.00777	495.76744	0.00085
#2	-0.00138	507.72680	0.00234	-0.01122	-0.00035	0.00086	0.00513	495.59750	0.00085
Mean	**-0.00127**	**506.18119**	**0.00005**	**-0.01080**	**-0.00037**	**0.00088**	**0.00645**	**495.68247**	**0.00085**
%RSD	12.72022	0.43183	5884.96774	5.58234	7.39990	1.98927	28.97570	0.02424	0.23348

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00594	-0.00093	-0.00465	197.11548	248.85851	9.96464	497.03612	0.00479	-0.00244
#2	0.00485	-0.00195	-0.00525	197.33535	250.19405	10.00762	498.68609	0.00456	-0.00061
Mean	**0.00540**	**-0.00144**	**-0.00495**	**197.22541**	**249.52628**	**9.98613**	**497.86110**	**0.00468**	**-0.00153**
%RSD	14.22485	50.34749	8.52684	0.07883	0.37846	0.30435	0.23434	3.55461	84.51640

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	150.47780	0.00266	0.01443	-0.00133	-0.00314	0.02589	0.01276	0.03061	-0.01217
#2	150.11676	0.00133	0.01886	-0.00369	0.00804	0.03998	0.00357	-0.00471	-0.01213
Mean	**150.29728**	**0.00199**	**0.01665**	**-0.00251**	**0.00245**	**0.03294**	**0.00816**	**0.01295**	**-0.01215**
%RSD	0.16986	47.33762	18.82061	66.39553	322.81776	30.24659	79.65750	192.82556	0.18902

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.02418	0.00211	-0.00001	0.00117	0.00851	0.15278	-0.00283	-0.00682	0.00910
#2	-0.02713	0.00399	0.00001	0.00081	0.00665	0.14938	-0.00390	-0.00073	0.00835
Mean	**-0.02566**	**0.00305**	**0.00000**	**0.00099**	**0.00758**	**0.15108**	**-0.00336**	**-0.00377**	**0.00873**
%RSD	8.10670	43.50777	1751.09743	25.67756	17.31892	1.59120	22.40238	114.19025	6.10622

	Pb	Se
	calc	calc
#1	-0.00254	0.00208
#2	0.00413	-0.00966
Mean	**0.00080**	**-0.00379**
%RSD	591.85139	218.88016

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:23
SampleId1 : MIXBHIGH SampleId2 : [CV]
Analysis commenced : 9/25/2013 11:43:27
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE6

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.01549	0.14347	5.08205	10.05827	10.03056	0.98626	0.00615	0.15361	5.02471
#2	2.00905	0.11906	5.03111	10.04064	10.03038	0.98721	-0.00026	0.13119	5.01072
Mean	**2.01227**	**0.13126**	**5.05658**	**10.04945**	**10.03047**	**0.98674**	**0.00294**	**0.14240**	**5.01771**
%RSD	0.22650	13.14826	0.71232	0.12406	0.00123	0.06829	153.86270	11.13316	0.19707

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.01225	10.03185	10.05405	0.03852	0.35454	-0.00064	0.08587	9.99386	10.08662
#2	5.01410	10.05198	10.02179	0.02514	0.34771	-0.00096	0.06636	10.00435	10.08186
Mean	**5.01317**	**10.04191**	**10.03792**	**0.03183**	**0.35113**	**-0.00080**	**0.07612**	**9.99910**	**10.08424**
%RSD	0.02601	0.14176	0.22727	29.71821	1.37415	27.66939	18.11830	0.07417	0.03337

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.43233	10.13069	50.16759	10.05974	10.00809	0.01885	2.03943	5.02192	4.93907
#2	0.42677	10.09643	50.22822	10.04597	10.09152	0.01885	2.03392	4.97072	5.05366
Mean	**0.42955**	**10.11356**	**50.19791**	**10.05285**	**10.04981**	**0.01885**	**2.03667**	**4.99632**	**4.99636**
%RSD	0.91478	0.23952	0.08541	0.09682	0.58703	0.00000	0.19130	0.72464	1.62182

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	50.06030	10.04186	10.01997	9.94842	4.98614	-0.06441	5.02585	10.00728	-0.01145
#2	50.05601	10.05175	10.00326	9.95766	4.94096	-0.07344	5.02097	10.05405	-0.01152
Mean	**50.05816**	**10.04680**	**10.01161**	**9.95304**	**4.96355**	**-0.06893**	**5.02341**	**10.03066**	**-0.01149**
%RSD	0.00605	0.06958	0.11808	0.06564	0.64358	9.27175	0.06860	0.32969	0.41869

	Pb	Se
	calc	calc
#1	10.02529	4.96666
#2	10.07635	5.02604
Mean	**10.05082**	**4.99635**
%RSD	0.35926	0.84045

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:23
SampleId1 : MIXCHIGH SampleId2 : [CV]
Analysis commenced : 9/25/2013 11:45:03
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE14

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00630	1.02548	0.00082	0.01680	0.00023	0.00086	5.00232	0.13037	0.00083
#2	0.00489	1.01636	-0.00071	0.01499	0.00008	0.00083	5.00014	0.12222	-0.00025
Mean	**0.00560**	**1.02092**	**0.00005**	**0.01590**	**0.00015**	**0.00085**	**5.00123**	**0.12630**	**0.00029**
%RSD	17.82958	0.63132	1963.65207	8.05889	71.70743	2.18255	0.03078	4.56442	260.55055

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo

	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00670	-0.00482	0.01562	-0.00822	0.33564	-0.00192	-0.40619	0.00691	0.01120
#2	0.00513	-0.00903	0.01521	-0.01028	0.34010	-0.00197	-0.44804	0.00656	0.01083
Mean	**0.00591**	**-0.00693**	**0.01541**	**-0.00925**	**0.33787**	**-0.00195**	**-0.42711**	**0.00673**	**0.01101**
%RSD	18.85922	42.96990	1.89914	15.72811	0.93370	2.11291	6.92903	3.70320	2.34540

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.40604	0.00528	0.05480	-0.03134	0.03288	50.09981	0.00513	0.00604	0.00832
#2	0.40505	0.00330	0.04397	-0.02908	0.02918	49.93714	0.01087	-0.00408	0.00186
Mean	**0.40554**	**0.00429**	**0.04939**	**-0.03021**	**0.03103**	**50.01848**	**0.00800**	**0.00098**	**0.00509**
%RSD	0.17292	32.57423	15.50985	5.28957	8.42561	0.22996	50.68994	726.71865	89.61443

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06075	0.02744	-0.00044	0.01455	0.01323	49.64228	-0.00790	0.00334	4.99814
#2	0.03877	0.02556	-0.00055	0.01299	0.00526	49.41450	-0.00877	0.00198	4.98232
Mean	**0.04976**	**0.02650**	**-0.00050**	**0.01377**	**0.00924**	**49.52839**	**-0.00834**	**0.00266**	**4.99023**
%RSD	31.23681	5.00419	15.90436	7.99950	60.99648	0.32520	7.38296	36.01384	0.22414

	Pb	**Se**
	calc	calc
#1	0.01149	0.00756
#2	0.00978	-0.00011
Mean	**0.01064**	**0.00372**
%RSD	11.39201	145.72575

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:24
SampleId1 : ICV **SampleId2 :** **[CV]**
Analysis commenced : 9/25/2013 11:54:03
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD5

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09886	23.82288	0.26133	0.49966	0.49602	0.24255	0.25968	24.59601	0.24647
#2	0.09817	23.86786	0.26216	0.50102	0.49466	0.24208	0.25257	24.48828	0.24661
Mean	**0.09851**	**23.84537**	**0.26174**	**0.50034**	**0.49534**	**0.24231**	**0.25612**	**24.54214**	**0.24654**
%RSD	0.49241	0.13339	0.22310	0.19130	0.19431	0.13884	1.96266	0.31038	0.04101

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.25549	0.48777	0.50743	10.02648	24.76313	0.23896	24.54624	0.49137	0.49031
#2	0.25411	0.48596	0.50870	10.00865	24.81515	0.23922	24.50922	0.48972	0.48172
Mean	**0.25480**	**0.48687**	**0.50806**	**10.01756**	**24.78914**	**0.23909**	**24.52773**	**0.49055**	**0.48602**
%RSD	0.38312	0.26216	0.17674	0.12590	0.14838	0.07441	0.10674	0.23716	1.25028

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	24.25411	0.50323	2.46901	0.47975	0.47983	2.50859	0.24466	0.49657	0.47830
#2	24.23368	0.49933	2.49761	0.48406	0.48872	2.52271	0.24937	0.49492	0.49612
Mean	**24.24389**	**0.50128**	**2.48331**	**0.48191**	**0.48428**	**2.51565**	**0.24701**	**0.49575**	**0.48721**
%RSD	0.05959	0.54940	0.81432	0.63202	1.29727	0.39700	1.34765	0.23440	2.58552

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.41985	0.49239	0.25248	0.23944	0.25420	2.54801	0.24856	0.49486	0.50111
#2	2.42046	0.48298	0.25179	0.23968	0.23400	2.53110	0.24753	0.49265	0.50051
Mean	**2.42016**	**0.48768**	**0.25213**	**0.23956**	**0.24410**	**2.53956**	**0.24805**	**0.49375**	**0.50081**
%RSD	0.01795	1.36445	0.19524	0.07230	5.85043	0.47067	0.29409	0.31633	0.08459

	Pb	**Se**
	calc	calc
#1	0.47981	0.48439
#2	0.48717	0.49572
Mean	**0.48349**	**0.49005**
%RSD	1.07647	1.63558

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:24
SampleId1 : ICB **SampleId2 :** **[CB]**
Analysis commenced : 9/25/2013 11:58:13
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD2

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00007	0.04274	0.00119	-0.00761	-0.00049	-0.00002	-0.00324	0.12997	0.00038
#2	-0.00053	0.03993	-0.00013	-0.00671	-0.00057	-0.00005	-0.00045	0.12671	0.00012
Mean	**-0.00030**	**0.04134**	**0.00053**	**-0.00716**	**-0.00053**	**-0.00003**	**-0.00185**	**0.12834**	**0.00025**
%RSD	109.46698	4.82130	176.57703	8.89612	10.87439	67.82173	106.85938	1.79678	72.21127

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00086	0.00145	-0.00026	0.00422	0.03647	-0.00222	0.03596	0.00040	0.00040
#2	-0.00054	0.00097	0.00000	0.00422	0.02830	-0.00224	0.03768	0.00015	-0.00139
Mean	**-0.00070**	**0.00121**	**-0.00013**	**0.00422**	**0.03239**	**-0.00223**	**0.03682**	**0.00027**	**-0.00049**
%RSD	32.21678	28.31214	136.16672	0.00000	17.84230	0.46902	3.30443	64.77703	255.62774

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08588	-0.00023	-0.00007	-0.00063	0.00311	-0.01637	-0.00167	-0.00040	-0.00017
#2	0.08572	-0.00060	-0.01051	-0.00169	0.00222	-0.00933	0.00056	-0.00783	0.00247
Mean	**0.08580**	**-0.00042**	**-0.00529**	**-0.00116**	**0.00267**	**-0.01285**	**-0.00055**	**-0.00411**	**0.00115**
%RSD	0.13848	62.32752	139.63160	64.86206	23.47312	38.75996	286.30150	127.78326	162.82966

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01260	0.00493	0.00030	-0.00120	-0.00028	-0.02584	0.00002	0.00152	0.00207

#2	-0.01436	0.00118	0.00026	-0.00138	0.00155	-0.02787	-0.00008	0.00152	0.00185
Mean	**-0.01348**	**0.00305**	**0.00028**	**-0.00129**	**0.00064**	**-0.02686**	**-0.00003**	**0.00152**	**0.00196**
%RSD	9.28184	86.91553	9.09927	9.91000	202.36776	5.34152	260.23289	0.00000	8.01524

	Pb	**Se**
	calc	calc
#1	0.00186	-0.00025
#2	0.00092	-0.00096
Mean	**0.00139**	**-0.00061**
%RSD	47.92485	83.49357

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:24
SampleId1 : CRI SampleId2 : [CV]
Analysis commenced : 9/25/2013 11:59:48
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD6

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02055	0.39192	0.00646	0.40268	0.41929	0.01133	0.05107	5.08669	0.01185
#2	0.02024	0.39130	0.01966	0.40155	0.42053	0.01130	0.04472	5.07887	0.01111
Mean	**0.02039**	**0.39161**	**0.01306**	**0.40211**	**0.41991**	**0.01132**	**0.04789**	**5.08278**	**0.01148**
%RSD	1.08042	0.11169	71.42941	0.19827	0.20820	0.17401	9.37030	0.10874	4.55540

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10605	0.02237	0.05319	0.19504	4.08357	0.01457	5.07760	0.03230	0.02084
#2	0.10403	0.02162	0.05357	0.19520	4.08577	0.01457	5.06261	0.03242	0.01918
Mean	**0.10504**	**0.02199**	**0.05338**	**0.19512**	**4.08467**	**0.01457**	**5.07010**	**0.03236**	**0.02001**
%RSD	1.35330	2.40344	0.50448	0.05592	0.03800	0.00000	0.20906	0.27448	5.86943

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.10001	0.08424	0.19954	0.00546	0.00817	0.20201	0.11597	0.00089	0.01364
#2	4.09412	0.08151	0.21104	0.00373	0.00754	0.18792	0.12070	0.00833	0.00836
Mean	**4.09706**	**0.08287**	**0.20529**	**0.00460**	**0.00785**	**0.19497**	**0.11834**	**0.00461**	**0.01100**
%RSD	0.10173	2.32850	3.96197	26.64665	5.66987	5.11046	2.82758	113.99540	33.94813

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08918	0.10723	0.02116	0.01910	0.02046	0.19381	0.10542	0.04252	0.05281
#2	0.08950	0.10441	0.02114	0.01930	0.02674	0.18908	0.10510	0.04033	0.05389
Mean	**0.08934**	**0.10582**	**0.02115**	**0.01920**	**0.02360**	**0.19144**	**0.10526**	**0.04143**	**0.05335**
%RSD	0.24946	1.88251	0.08121	0.75879	18.79208	1.74867	0.21781	3.75000	1.43111

	Pb	**Se**
	calc	calc
#1	0.00727	0.00940
#2	0.00627	0.00835

Mean	**0.00677**	**0.00887**	**ser: STEVE WORKMAN**
%RSD	10.41533	8.35160	

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:24
SampleId1 : ICSA SampleId2 : [ICSAB]
Analysis commenced : 9/25/2013 12:01:21
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD3

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00100	268.23679	0.00884	-0.01267	-0.00094	0.00045	0.00744	263.65832	0.00101
#2	-0.00007	269.41375	0.00119	-0.01200	-0.00090	0.00045	0.00440	264.00109	0.00023
Mean	**-0.00054**	**268.82527**	**0.00501**	**-0.01233**	**-0.00092**	**0.00045**	**0.00592**	**263.82971**	**0.00062**
%RSD	121.87279	0.30958	107.91653	3.87138	3.14199	0.79865	36.37690	0.09187	88.41874

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00369	0.00037	-0.00193	111.99832	0.02176	-0.00204	264.92705	0.00329	-0.00254
#2	0.00295	0.00032	-0.00193	112.24872	0.02067	-0.00206	265.55326	0.00304	-0.00394
Mean	**0.00332**	**0.00034**	**-0.00193**	**112.12352**	**0.02122**	**-0.00205**	**265.24015**	**0.00316**	**-0.00324**
%RSD	15.75589	9.88866	0.06063	0.15791	3.63109	0.63754	0.16694	5.61585	30.65538

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.07418	0.00066	0.01769	0.00527	-0.00105	0.00476	0.00429	0.01662	-0.00419
#2	0.07384	0.00103	-0.00686	0.00564	0.00022	0.01885	0.00901	-0.00544	-0.00269
Mean	**0.07401**	**0.00084**	**0.00542**	**0.00546**	**-0.00041**	**0.01180**	**0.00665**	**0.00559**	**-0.00344**
%RSD	0.32099	30.82331	320.40539	4.71954	218.34459	84.39632	50.17303	279.18636	30.91843

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01681	0.01713	0.00094	-0.00010	0.00840	0.07525	-0.00139	0.01690	0.00461
#2	-0.01649	0.00493	0.00096	-0.00042	0.02145	0.08115	-0.00240	0.01250	0.00456
Mean	**-0.01665**	**0.01103**	**0.00095**	**-0.00026**	**0.01492**	**0.07820**	**-0.00189**	**0.01470**	**0.00459**
%RSD	1.33027	78.21377	0.90293	86.68244	61.86937	5.33090	37.89306	21.12766	0.79364

	Pb	**Se**
	calc	calc
#1	0.00106	0.00274
#2	0.00203	-0.00360
Mean	**0.00154**	**-0.00043**
%RSD	44.44713	1037.77934

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:24
SampleId1 : ICSAB SampleId2 : [ICSAB]
Analysis commenced : 9/25/2013 12:02:59
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD4

Final concentrations **0:42** **User: STEVE WORKMAN**

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19686	262.23458	0.10366	0.94870	0.48023	0.44795	0.49172	253.81115	0.97619
#2	0.19773	261.48458	0.09467	0.94339	0.47734	0.44995	0.49475	255.46058	0.97710
Mean	**0.19729**	**261.85958**	**0.09916**	**0.94604**	**0.47878**	**0.44895**	**0.49324**	**254.63586**	**0.97665**
%RSD	0.31168	0.20252	6.40957	0.39702	0.42635	0.31455	0.43539	0.45803	0.06605

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47766	0.46006	0.52480	108.08925	0.00705	1.10134	257.26641	0.46277	0.91559
#2	0.47945	0.46189	0.52227	108.77668	0.01468	1.09362	257.34074	0.46530	0.91418
Mean	**0.47856**	**0.46097**	**0.52353**	**108.43296**	**0.01087**	**1.09748**	**257.30357**	**0.46404**	**0.91488**
%RSD	0.26548	0.28124	0.34078	0.44828	49.62672	0.49705	0.02043	0.38554	0.10942

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.05436	0.91482	0.98344	0.04650	0.04987	0.99143	0.57560	0.05012	0.03631
#2	0.05430	0.91672	1.00024	0.04196	0.05179	0.98437	0.56301	0.05987	0.03626
Mean	**0.05433**	**0.91577**	**0.99184**	**0.04423**	**0.05083**	**0.98790**	**0.56930**	**0.05499**	**0.03629**
%RSD	0.07285	0.14672	1.19814	7.25332	2.67467	0.50470	1.56334	12.53124	0.08755

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.88023	0.97785	0.93876	0.89836	0.10564	9.62512	0.46483	0.86825	0.46323
#2	0.87830	0.97879	0.93423	0.90068	0.09772	9.59952	0.46452	0.87712	0.46470
Mean	**0.87926**	**0.97832**	**0.93650**	**0.89952**	**0.10168**	**9.61232**	**0.46468**	**0.87269**	**0.46397**
%RSD	0.15491	0.06800	0.34189	0.18206	5.50631	0.18836	0.04807	0.71913	0.22439

	Pb	**Se**
	calc	calc
#1	0.04875	0.04091
#2	0.04852	0.04412
Mean	**0.04863**	**0.04252**
%RSD	0.33219	5.34790

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:24
SampleId1 : CCV **SampleId2 :** **[CV]**
Analysis commenced : 9/25/2013 12:04:36
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD1

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19955	49.46841	0.49214	1.00318	0.96293	0.48013	0.50246	49.83387	0.50433
#2	0.19827	50.25104	0.50627	1.00815	0.97579	0.48031	0.51266	49.55033	0.50364
Mean	**0.19891**	**49.85973**	**0.49920**	**1.00567**	**0.96936**	**0.48022**	**0.50756**	**49.69210**	**0.50398**
%RSD	0.45528	1.10993	2.00227	0.34973	0.93785	0.02657	1.42184	0.40347	0.09766

ted: 9/25/2013 15:20:42 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.50908	0.96954	1.00438	20.25219	50.88031	0.51718	48.75533	0.97087	0.97622
#2	0.50622	0.96631	1.01829	20.23926	51.72975	0.52762	49.13303	0.97074	0.97223
Mean	**0.50765**	**0.96793**	**1.01134**	**20.24573**	**51.30503**	**0.52240**	**48.94418**	**0.97081**	**0.97423**
%RSD	0.39777	0.23547	0.97252	0.04515	1.17074	1.41382	0.54568	0.00929	0.28971

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	50.79809	0.99581	4.86995	0.95828	0.96084	4.97631	0.48405	0.96703	0.94576
#2	51.52806	0.99132	4.88122	0.95891	0.97878	5.02587	0.48479	0.96166	0.98137
Mean	**51.16308**	**0.99356**	**4.87559**	**0.95859**	**0.96981**	**5.00109**	**0.48442**	**0.96435**	**0.96357**
%RSD	1.00886	0.31947	0.16343	0.04601	1.30794	0.70071	0.10823	0.39376	2.61375

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.72570	0.98307	0.50004	0.47188	0.49358	4.89713	0.49172	1.01407	0.98096
#2	4.76513	0.99250	0.50377	0.47441	0.48912	4.93032	0.49242	1.00296	0.98358
Mean	**4.74542**	**0.98778**	**0.50191**	**0.47315**	**0.49135**	**4.91373**	**0.49207**	**1.00851**	**0.98227**
%RSD	0.58758	0.67528	0.52608	0.37811	0.64174	0.47757	0.09986	0.77909	0.18891

	Pb	Se
	calc	calc
#1	0.95999	0.95284
#2	0.97216	0.97481
Mean	**0.96607**	**0.96383**
%RSD	0.89097	1.61171

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:25
SampleId1 : CCB SampleId2 : [CB]
Analysis commenced : 9/25/2013 12:06:14
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00054	0.06741	0.00066	-0.00581	-0.00021	0.00018	0.00006	0.15606	0.00018
#2	-0.00024	0.06255	0.00330	-0.00412	-0.00029	0.00017	0.00235	0.15320	0.00004
Mean	**-0.00039**	**0.06498**	**0.00198**	**-0.00496**	**-0.00025**	**0.00017**	**0.00120**	**0.15463**	**0.00011**
%RSD	55.04255	5.28483	94.25372	24.05814	23.55077	2.86608	134.43988	1.30491	88.72385

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00075	0.00114	0.00012	0.01916	0.04873	-0.00216	0.05891	0.00053	0.00295
#2	-0.00033	0.00144	-0.00001	0.01639	0.04846	-0.00221	0.05948	0.00065	0.00155
Mean	**-0.00054**	**0.00129**	**0.00005**	**0.01777**	**0.04860**	**-0.00219**	**0.05919**	**0.00059**	**0.00225**
%RSD	55.48905	16.48709	167.21775	11.02784	0.39639	1.43561	0.68522	15.09885	44.12594

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09860	0.00118	0.01038	-0.00285	0.00089	0.00476	-0.00464	-0.00481	0.00306
#2	0.09563	-0.00097	-0.00059	-0.00042	0.00101	-0.00933	-0.00091	0.00356	0.00027
Mean	**0.09712**	**0.00011**	**0.00489**	**-0.00164**	**0.00095**	**-0.00228**	**-0.00278**	**-0.00062**	**0.00166**
%RSD	2.16183	1408.32397	158.44499	105.07647	8.70337	436.07020	94.86772	949.99115	118.61237

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01307	0.00024	0.00046	-0.00062	0.00419	-0.02180	-0.00019	0.00445	0.00266
#2	-0.01244	0.00493	0.00042	-0.00072	0.00314	-0.00962	0.00014	0.00226	0.00273
Mean	**-0.01275**	**0.00258**	**0.00044**	**-0.00067**	**0.00367**	**-0.01571**	**-0.00003**	**0.00335**	**0.00269**
%RSD	3.50235	128.41446	5.84177	10.90085	20.09999	54.80282	877.10638	46.29045	1.79846

	Pb	Se
	calc	calc
#1	-0.00035	0.00044
#2	0.00053	0.00136
Mean	**0.00009**	**0.00090**
%RSD	700.22923	72.81848

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:25
SampleId1 : IP130924-1MB SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 12:07:51
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00139	0.01311	-0.00145	-0.00896	-0.00086	-0.00008	-0.00477	0.08839	0.00028
#2	-0.00093	0.00771	0.00040	-0.00828	-0.00070	-0.00017	0.00158	0.08921	0.00015
Mean	**-0.00116**	**0.01041**	**-0.00053**	**-0.00862**	**-0.00078**	**-0.00012**	**-0.00159**	**0.08880**	**0.00021**
%RSD	27.70593	36.68006	247.76972	5.53954	14.88252	51.37617	281.91333	0.64916	43.14687

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00138	0.00030	-0.00013	0.38471	-0.02536	-0.00263	0.01875	0.00090	-0.00011
#2	-0.00107	0.00016	-0.00039	0.38672	-0.01610	-0.00261	0.01875	0.00103	0.00180
Mean	**-0.00123**	**0.00023**	**-0.00026**	**0.38571**	**-0.02073**	**-0.00262**	**0.01875**	**0.00096**	**0.00085**
%RSD	18.30240	43.10575	69.79121	0.36847	31.59000	0.69956	0.00000	9.20335	160.04246

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06696	0.00087	0.00568	-0.00480	0.00453	0.00476	-0.00067	-0.00295	-0.00276
#2	0.06651	-0.00097	0.00516	0.00184	0.00028	-0.01637	-0.00290	0.00286	0.00135
Mean	**0.06673**	**-0.00005**	**0.00542**	**-0.00148**	**0.00240**	**-0.00581**	**-0.00178**	**-0.00004**	**-0.00070**
%RSD	0.47460	2628.79784	6.81768	317.79603	124.97093	257.34614	88.29671	9294.62210	412.46100

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr

	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00058	0.00305	-0.00012	-0.00169	0.00091	-0.02613	-0.00091	0.01983	0.00175
#2	0.00215	-0.00070	-0.00011	-0.00153	0.00327	-0.01193	-0.00021	0.02056	0.00221
Mean	**0.00079**	**0.00118**	**-0.00012**	**-0.00161**	**0.00209**	**-0.01903**	**-0.00056**	**0.02019**	**0.00198**
%RSD	244.88159	225.47942	7.29965	6.79398	79.95486	52.75473	88.91463	2.56390	16.53145

	Pb	**Se**
	calc	calc
#1	0.00142	-0.00282
#2	0.00080	0.00185
Mean	**0.00111**	**-0.00048**
%RSD	39.56063	682.63345

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:25
SampleId1 : IP130924-1LCS SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 12:23:37
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE2

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00084	-0.03132	0.00040	-0.00569	-0.00086	0.00511	-0.00502	0.05904	-0.00041
#2	-0.00022	-0.03907	-0.00066	-0.00558	-0.00074	0.00506	-0.00248	0.05864	-0.00035
Mean	**-0.00053**	**-0.03520**	**-0.00013**	**-0.00564**	**-0.00080**	**0.00508**	**-0.00375**	**0.05884**	**-0.00038**
%RSD	81.82867	15.56036	568.26067	1.41174	10.87576	0.69497	47.85344	0.48981	12.36947

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00096	-0.00058	-0.00140	-0.00825	-0.00629	-0.00259	0.00843	-0.00048	-0.00049
#2	-0.00075	-0.00080	-0.00115	-0.00856	0.00270	-0.00257	0.00900	-0.00060	-0.00279
Mean	**-0.00085**	**-0.00069**	**-0.00127**	**-0.00840**	**-0.00180**	**-0.00258**	**0.00872**	**-0.00054**	**-0.00164**
%RSD	17.50410	22.84852	13.99155	2.59131	353.35155	0.50685	4.65279	16.38030	98.87544

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.04306	-0.00097	0.00098	-0.00076	0.00025	0.00476	-0.00266	-0.00829	-0.00575
#2	0.04322	-0.00065	-0.00947	-0.00331	-0.00171	-0.00228	-0.00068	-0.00179	-0.00384
Mean	**0.04314**	**-0.00081**	**-0.00424**	**-0.00203**	**-0.00073**	**0.00124**	**-0.00167**	**-0.00504**	**-0.00480**
%RSD	0.27519	27.47550	173.99018	88.59095	190.78737	402.47667	83.72500	91.29843	28.11202

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01388	0.00305	-0.00067	-0.00190	0.00625	-0.02313	-0.00014	0.01031	0.00117
#2	-0.01341	0.00869	-0.00069	-0.00185	-0.00760	-0.01839	-0.00074	0.01104	0.00123
Mean	**-0.01365**	**0.00587**	**-0.00068**	**-0.00188**	**-0.00068**	**-0.02076**	**-0.00044**	**0.01067**	**0.00120**
%RSD	2.43497	67.83035	2.51696	1.93868	1445.67282	16.12405	95.45820	4.84925	4.03439

	Pb	**Se**
	calc	calc

#1	-0.00008	-0.00660
#2	-0.00224	-0.00316
Mean	**-0.00116**	**-0.00488**
%RSD	131.28072	49.85421

ser: STEVE WORKMAN

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:25
SampleId1 : IP130924-1LCSD SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 12:25:09
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE3

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00046	-0.03181	-0.00251	-0.00581	-0.00078	0.00520	-0.00172	0.06149	-0.00013
#2	-0.00038	-0.03126	0.00013	-0.00794	-0.00082	0.00517	0.00005	0.06067	-0.00009
Mean	**-0.00042**	**-0.03154**	**-0.00119**	**-0.00688**	**-0.00080**	**0.00518**	**-0.00083**	**0.06108**	**-0.00011**
%RSD	13.26782	1.21680	157.21411	21.99299	3.62525	0.44857	150.74372	0.94367	27.33705

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00033	0.00025	-0.00064	-0.00794	-0.00738	-0.00258	0.01302	-0.00060	-0.00228
#2	-0.00033	-0.00023	-0.00089	-0.00856	-0.00766	-0.00256	0.00728	-0.00048	-0.00177
Mean	**-0.00033**	**0.00001**	**-0.00077**	**-0.00825**	**-0.00752**	**-0.00257**	**0.01015**	**-0.00054**	**-0.00203**
%RSD	0.03599	2802.50114	23.30862	5.27937	2.56161	0.30542	39.95527	16.38030	17.81937

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.04395	-0.00196	-0.00059	-0.00080	-0.00095	-0.00933	0.00380	-0.00783	-0.00032
#2	0.04384	-0.00118	-0.00111	-0.00288	-0.00405	-0.00933	-0.00018	0.00054	-0.00135
Mean	**0.04389**	**-0.00157**	**-0.00085**	**-0.00184**	**-0.00250**	**-0.00933**	**0.00181**	**-0.00364**	**-0.00084**
%RSD	0.18031	35.42423	43.42936	80.02226	87.60667	0.00000	155.51413	162.22040	86.89600

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01117	0.00681	-0.00067	-0.00201	0.00390	-0.01840	-0.00036	0.01616	0.00122
#2	-0.01020	0.00869	-0.00068	-0.00196	0.01383	-0.01975	-0.00073	0.01397	0.00123
Mean	**-0.01068**	**0.00775**	**-0.00068**	**-0.00198**	**0.00886**	**-0.01907**	**-0.00055**	**0.01507**	**0.00123**
%RSD	6.38117	17.13158	1.26978	1.83790	79.23275	5.01327	48.94769	10.30725	0.97876

	Pb	**Se**
	calc	calc
#1	-0.00090	-0.00282
#2	-0.00366	-0.00072
Mean	**-0.00228**	**-0.00177**
%RSD	85.56812	83.82581

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:25
SampleId1 : 1309204-1 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 12:26:40

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE4

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00341	1.94536	-0.00409	0.02188	0.01952	0.00014	0.00637	3.20251	0.00045
#2	0.00255	1.94874	0.00541	0.02031	0.01944	0.00012	0.00638	3.18652	0.00023
Mean	**0.00298**	**1.94705**	**0.00066**	**0.02110**	**0.01948**	**0.00013**	**0.00638**	**3.19451**	**0.00034**
%RSD	20.23559	0.12268	1016.93684	5.28242	0.29777	9.94850	0.04449	0.35390	44.37187

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00045	0.01863	0.35419	1.37072	0.26208	-0.00215	0.36699	0.02476	-0.00075
#2	-0.00034	0.01770	0.35558	1.36854	0.25282	-0.00218	0.36584	0.02489	0.00040
Mean	**-0.00039**	**0.01816**	**0.35489**	**1.36963**	**0.25745**	**-0.00217**	**0.36641**	**0.02482**	**-0.00018**
%RSD	19.02760	3.61162	0.27723	0.11293	2.54496	0.84531	0.22146	0.35777	463.63281

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.39574	0.00402	0.07254	0.04742	0.05205	1.49218	-0.00322	0.01099	0.00663
#2	0.39743	0.00548	0.06575	0.04513	0.05407	1.47102	-0.00496	-0.00458	-0.00071
Mean	**0.39658**	**0.00475**	**0.06914**	**0.04627**	**0.05306**	**1.48160**	**-0.00409**	**0.00320**	**0.00296**
%RSD	0.30136	21.86355	6.94574	3.50822	2.69794	1.01007	29.95694	343.46977	175.12272

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.31684	0.00585	0.02414	0.01795	0.01215	-0.02621	0.00189	0.53315	0.00680
#2	0.31364	0.00303	0.02415	0.01800	-0.00562	-0.02553	0.00130	0.53757	0.00645
Mean	**0.31524**	**0.00444**	**0.02415**	**0.01798**	**0.00326**	**-0.02587**	**0.00159**	**0.53536**	**0.00662**
%RSD	0.71846	44.84789	0.03557	0.20260	384.89826	1.85291	26.37304	0.58378	3.65335

	Pb	Se
	calc	calc
#1	0.05051	0.00808
#2	0.05109	-0.00200
Mean	**0.05080**	**0.00304**
%RSD	0.81547	234.16445

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:26
SampleId1 : 1309204-2 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 12:28:12
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE5

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00038	0.04861	-0.00013	-0.00648	0.00312	0.00011	0.00185	0.41987	0.00024
#2	-0.00039	0.03973	-0.00092	-0.00738	0.00316	0.00008	-0.00044	0.42232	0.00051

Mean	**-0.00039**	**0.04417**	**-0.00053**	**-0.00693**	**0.00314**	**0.00009**	**0.00071**	**0.42110**	**0.00038**
%RSD	0.90257	14.21784	106.18546	9.18502	0.92440	24.02460	228.59810	0.41092	50.90051

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00096	0.01183	0.00404	0.46901	0.02176	-0.00262	0.03424	0.00417	-0.00382
#2	-0.00075	0.01213	0.00417	0.46824	0.02721	-0.00262	0.03940	0.00417	0.00014
Mean	**-0.00085**	**0.01198**	**0.00410**	**0.46862**	**0.02449**	**-0.00262**	**0.03682**	**0.00417**	**-0.00184**
%RSD	17.49665	1.80273	2.15277	0.11675	15.73198	0.00000	9.91328	0.00000	152.51435

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.17210	0.00381	0.00829	0.00127	0.00180	0.08225	-0.00172	-0.00086	0.00048
#2	0.17137	0.00590	0.01403	0.00000	0.00319	0.08929	0.00054	-0.00272	0.00254
Mean	**0.17173**	**0.00485**	**0.01116**	**0.00063**	**0.00250**	**0.08577**	**-0.00059**	**-0.00179**	**0.00151**
%RSD	0.30029	30.55875	36.39561	141.62020	39.30158	5.80778	269.07644	73.32116	96.25766

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01640	-0.00446	0.01631	0.00037	-0.00606	-0.02620	-0.00001	0.07768	0.00332
#2	0.01016	0.00117	0.01628	0.00049	-0.00057	-0.02079	-0.00012	0.07548	0.00361
Mean	**0.01328**	**-0.00164**	**0.01629**	**0.00043**	**-0.00331**	**-0.02349**	**-0.00006**	**0.07658**	**0.00347**
%RSD	33.21258	242.70067	0.10542	18.93677	117.16791	16.28595	121.51031	2.02930	5.96787

	Pb	**Se**
	calc	calc
#1	0.00162	0.00003
#2	0.00213	0.00079
Mean	**0.00188**	**0.00041**
%RSD	19.00511	129.56029

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:26
SampleId1 : 1309204-3 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 12:29:43
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE6

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00016	0.11970	-0.00013	-0.00007	0.00402	0.00005	0.00161	0.63608	0.00033
#2	-0.00085	0.12244	-0.00092	0.00005	0.00402	0.00004	-0.00068	0.63159	0.00001
Mean	**-0.00050**	**0.12107**	**-0.00053**	**-0.00001**	**0.00402**	**0.00005**	**0.00047**	**0.63384**	**0.00017**
%RSD	97.42465	1.59891	106.18546	813.64136	0.00000	16.76747	345.39523	0.50070	132.82548

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00128	0.01637	0.00999	0.59460	0.04356	-0.00257	0.03998	0.00668	-0.00049
#2	-0.00096	0.01598	0.00986	0.59196	0.03838	-0.00258	0.04055	0.00668	-0.00216
Mean	**-0.00112**	**0.01618**	**0.00992**	**0.59328**	**0.04097**	**-0.00258**	**0.04026**	**0.00668**	**-0.00133**

%RSD	20.06037	1.72329	0.89184	0.31397	8.93342	0.20318	1.00733	0.00000	88.62121

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.22553	0.00711	0.00359	0.00168	0.00660	0.21610	-0.00073	-0.00086	0.00417
#2	0.22559	0.00769	0.01247	-0.00221	0.00503	0.18792	-0.00148	0.01006	-0.00390
Mean	**0.22556**	**0.00740**	**0.00803**	**-0.00026**	**0.00581**	**0.20201**	**-0.00110**	**0.00460**	**0.00013**
%RSD	0.01760	5.51429	78.20155	1046.55620	19.18891	9.86451	48.38072	167.82993	4277.38554

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01304	-0.00446	0.03891	0.00050	-0.00697	-0.02156	-0.00003	0.18031	0.00423
#2	0.00919	-0.00727	0.03866	0.00062	-0.00697	-0.02629	-0.00035	0.18251	0.00384
Mean	**0.01112**	**-0.00586**	**0.03879**	**0.00056**	**-0.00697**	**-0.02393**	**-0.00019**	**0.18141**	**0.00403**
%RSD	24.50273	33.95185	0.46522	14.59412	0.04709	13.98462	122.11978	0.85775	6.90087

	Pb	**Se**
	calc	calc
#1	0.00496	0.00249
#2	0.00262	0.00075
Mean	**0.00379**	**0.00162**
%RSD	43.78445	76.20404

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:26
SampleId1 : 1309293-1 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 12:31:14
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE7

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00039	0.24845	0.00409	0.01558	0.01038	0.00002	0.00464	0.98138	0.00077
#2	-0.00062	0.25565	-0.00092	0.01569	0.01054	0.00001	0.00185	0.97770	-0.00011
Mean	**-0.00051**	**0.25205**	**0.00158**	**0.01564**	**0.01046**	**0.00002**	**0.00324**	**0.97954**	**0.00033**
%RSD	32.03375	2.01856	223.82709	0.50905	1.10928	12.38588	60.81659	0.26526	187.23069

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00021	0.03496	0.09613	1.16783	0.08224	-0.00249	0.06636	0.00944	-0.00216
#2	-0.00095	0.03443	0.09752	1.16752	0.07243	-0.00251	0.06579	0.00931	-0.00049
Mean	**-0.00058**	**0.03470**	**0.09682**	**1.16767**	**0.07734**	**-0.00250**	**0.06608**	**0.00938**	**-0.00133**
%RSD	89.95788	1.07351	1.01716	0.01888	8.96723	0.62756	0.61384	0.94688	88.62121

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.29594	0.01356	0.02082	0.00246	0.00321	0.32179	-0.00528	-0.00527	-0.00176
#2	0.29780	0.01388	0.01508	0.00045	0.00467	0.34998	0.00245	-0.00783	-0.00235
Mean	**0.29687**	**0.01372**	**0.01795**	**0.00146**	**0.00394**	**0.33589**	**-0.00141**	**-0.00655**	**-0.00206**
%RSD	0.44200	1.62214	22.63064	97.60649	26.20354	5.93365	386.69537	27.62248	20.18157

ted: 9/25/2013 15:20:42 User: STEVE WORKMAN

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01319	-0.00352	0.03530	0.00155	0.00121	-0.01591	-0.00018	0.25370	0.00387
#2	0.01737	0.00117	0.03549	0.00160	-0.00428	-0.02065	0.00009	0.25957	0.00389
Mean	**0.01528**	**-0.00117**	**0.03540**	**0.00157**	**-0.00153**	**-0.01828**	**-0.00005**	**0.25664**	**0.00388**
%RSD	19.32164	282.95915	0.36410	2.31637	253.64199	18.31247	391.14404	1.61835	0.29845

	Pb	Se
	calc	calc
#1	0.00296	-0.00293
#2	0.00326	-0.00417
Mean	**0.00311**	**-0.00355**
%RSD	6.90196	24.74990

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:26
SampleId1 : 1309293-2 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 12:32:45
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE8

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00024	0.26744	-0.00171	0.03438	0.01239	-0.00001	-0.00245	1.14390	0.00078
#2	-0.00046	0.26340	-0.00620	0.03427	0.01234	0.00001	0.00263	1.13655	0.00043
Mean	**-0.00035**	**0.26542**	**-0.00396**	**0.03432**	**0.01237**	**0.00000**	**0.00009**	**1.14022**	**0.00061**
%RSD	45.66672	1.07621	80.14842	0.23192	0.23455	1002.46529	3957.98069	0.45589	41.14038

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00084	0.00913	0.10486	0.76086	0.08524	-0.00248	0.07440	0.00567	-0.00049
#2	-0.00158	0.00874	0.10473	0.76086	0.07352	-0.00249	0.07497	0.00567	-0.00152
Mean	**-0.00121**	**0.00893**	**0.10479**	**0.76086**	**0.07938**	**-0.00248**	**0.07468**	**0.00567**	**-0.00101**
%RSD	43.12390	3.09855	0.08369	0.00000	10.43520	0.42149	0.54312	0.00000	71.85440

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.32531	0.00847	0.02344	0.00102	0.00363	0.36407	-0.00095	-0.00736	0.00184
#2	0.32643	0.00753	0.00672	-0.00159	0.00604	0.34998	-0.00145	-0.00342	-0.00021
Mean	**0.32587**	**0.00800**	**0.01508**	**-0.00029**	**0.00483**	**0.35703**	**-0.00120**	**-0.00539**	**0.00082**
%RSD	0.24418	8.34321	78.37430	647.83549	35.26162	2.79122	29.55023	51.74512	177.48751

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01400	0.00024	0.01554	0.00156	-0.00261	-0.01831	-0.00016	0.19425	0.00438
#2	0.01416	0.00305	0.01567	0.00143	0.00339	-0.02710	-0.00021	0.19572	0.00425
Mean	**0.01408**	**0.00164**	**0.01561**	**0.00149**	**0.00039**	**-0.02270**	**-0.00018**	**0.19499**	**0.00431**
%RSD	0.79862	121.18240	0.60527	6.09019	1087.30438	27.38398	20.91271	0.53212	2.24777

	Pb	Seser: STEVE WORKMAN
	calc	calc
#1	0.00276	-0.00122
#2	0.00350	-0.00128
Mean	**0.00313**	**-0.00125**
%RSD	16.65829	3.19229

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:26
SampleId1 : 1309293-3 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 12:34:17
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE9

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00001	1.37095	-0.00857	0.00815	0.01813	0.00006	-0.00019	2.31648	0.00056
#2	-0.00078	1.38211	0.00013	0.00826	0.01821	0.00000	0.00464	2.32057	0.00036
Mean	**-0.00040**	**1.37653**	**-0.00422**	**0.00821**	**0.01817**	**0.00003**	**0.00223**	**2.31853**	**0.00046**
%RSD	138.32071	0.57338	145.86177	0.96981	0.31927	119.94602	153.61575	0.12483	31.79410

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00033	0.01664	0.55762	2.84074	0.75367	-0.00208	0.42322	0.12041	-0.00024
#2	0.00030	0.01584	0.56192	2.84756	0.75449	-0.00208	0.42494	0.12079	-0.00216
Mean	**-0.00001**	**0.01624**	**0.55977**	**2.84415**	**0.75408**	**-0.00208**	**0.42408**	**0.12060**	**-0.00120**
%RSD	3052.09123	3.45088	0.54349	0.16960	0.07673	0.00000	0.28704	0.22126	113.16539

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.48222	0.01162	0.10441	0.06105	0.06427	1.32289	0.00077	-0.00597	-0.00049
#2	1.49021	0.01146	0.11434	0.05825	0.06136	1.33699	-0.00173	-0.00574	0.00391
Mean	**1.48621**	**0.01154**	**0.10938**	**0.05965**	**0.06281**	**1.32994**	**-0.00048**	**-0.00585**	**0.00171**
%RSD	0.38017	0.96402	6.41883	3.31429	3.27327	0.75005	367.65717	2.78255	181.79004

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.17894	0.00679	0.01958	0.01358	-0.00265	-0.01854	0.00074	0.77290	0.00555
#2	0.17349	-0.00447	0.01965	0.01365	0.00886	-0.02193	0.00085	0.77290	0.00538
Mean	**0.17621**	**0.00116**	**0.01962**	**0.01362**	**0.00311**	**-0.02024**	**0.00079**	**0.77290**	**0.00547**
%RSD	2.19012	686.69428	0.21893	0.33431	261.94560	11.83407	9.65749	0.00000	2.20396

	Pb	Se
	calc	calc
#1	0.06319	-0.00231
#2	0.06032	0.00070
Mean	**0.06176**	**-0.00081**
%RSD	3.28646	264.00943

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:27

SampleId1 : MS SPIKE 100X **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 12:41:17
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE10

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00955	4.54757	0.09943	1.01652	0.09980	0.04997	-0.00149	9.37690	0.03064
#2	0.00908	4.56954	0.10419	1.01675	0.10041	0.05003	-0.00527	9.38519	0.03167
Mean	**0.00932**	**4.55856**	**0.10181**	**1.01663**	**0.10010**	**0.05000**	**-0.00338**	**9.38105**	**0.03115**
%RSD	3.54141	0.34082	3.30538	0.01573	0.43504	0.07646	78.96525	0.06250	2.33891

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10155	0.49083	1.02019	4.79187	4.28365	0.81948	9.32822	0.19165	0.10048
#2	0.10132	0.49127	1.02360	4.80740	4.30095	0.82325	9.34964	0.19203	0.09907
Mean	**0.10144**	**0.49105**	**1.02190**	**4.79963**	**4.29230**	**0.82136**	**9.33893**	**0.19184**	**0.09978**
%RSD	0.16330	0.06360	0.23636	0.22881	0.28491	0.32395	0.16221	0.13926	0.99680

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	8.21506	0.51133	-0.00320	0.05070	0.05009	-0.00228	0.03064	0.10582	0.08872
#2	8.24443	0.50791	-0.00738	0.04768	0.04838	-0.00933	0.02440	0.08745	0.09459
Mean	**8.22974**	**0.50962**	**-0.00529**	**0.04919**	**0.04924**	**-0.00581**	**0.02752**	**0.09664**	**0.09166**
%RSD	0.25235	0.47471	55.85195	4.33464	2.44635	85.78130	16.01882	13.43909	4.53150

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00932	0.46894	0.10283	1.78940	-0.00108	-0.01665	0.10003	1.94516	0.00357
#2	-0.00581	0.47081	0.10323	1.80051	0.00835	-0.01463	0.10074	1.95565	0.00336
Mean	**-0.00757**	**0.46988**	**0.10303**	**1.79495**	**0.00363**	**-0.01564**	**0.10039**	**1.95040**	**0.00347**
%RSD	32.79484	0.28125	0.27562	0.43744	183.33530	9.11727	0.49636	0.38014	4.21437

	Pb	Se
	calc	calc
#1	0.05029	0.09442
#2	0.04815	0.09222
Mean	**0.04922**	**0.09332**
%RSD	3.07476	1.66575

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:27
SampleId1 : CCV **SampleId2 :** **[CV]**
Analysis commenced : 9/25/2013 12:43:43
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	0.19698	48.80134	0.48840	0.99289	0.97201	0.46841	0.51566	48.62206	0.50148
#2	0.19590	48.79450	0.49480	0.99109	0.96981	0.46912	0.50524	48.55340	0.49215
Mean	**0.19644**	**48.79792**	**0.49160**	**0.99199**	**0.97091**	**0.46876**	**0.51045**	**48.58773**	**0.49682**
%RSD	0.38775	0.00991	0.92055	0.12892	0.16009	0.10791	1.44335	0.09992	1.32795

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49935	0.94573	1.01019	19.77596	51.03807	0.52155	48.15416	0.94511	0.96412
#2	0.49817	0.94819	1.00741	19.78553	50.99061	0.52113	48.08866	0.94664	0.96464
Mean	**0.49876**	**0.94696**	**1.00880**	**19.78075**	**51.01434**	**0.52134**	**48.12141**	**0.94588**	**0.96438**
%RSD	0.16656	0.18354	0.19474	0.03421	0.06577	0.05771	0.09626	0.11437	0.03776

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.10811	0.99142	4.75623	0.94596	0.92588	4.99755	0.48406	0.97221	0.94510
#2	50.90120	0.99427	4.71816	0.94632	0.95293	4.85596	0.48154	0.97689	0.96520
Mean	**51.00466**	**0.99285**	**4.73720**	**0.94614**	**0.93941**	**4.92675**	**0.48280**	**0.97455**	**0.95515**
%RSD	0.28685	0.20310	0.56826	0.02705	2.03583	2.03209	0.36848	0.33924	1.48811

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.65595	0.97459	0.50221	0.45863	0.50674	4.93812	0.48384	0.96445	0.97260
#2	4.64933	0.97270	0.50048	0.46015	0.48285	4.91848	0.48406	0.96297	0.97250
Mean	**4.65264**	**0.97365**	**0.50135**	**0.45939**	**0.49480**	**4.92830**	**0.48395**	**0.96371**	**0.97255**
%RSD	0.10065	0.13718	0.24427	0.23444	3.41425	0.28183	0.03243	0.10865	0.00737

	Pb	**Se**
	calc	calc
#1	0.93257	0.95412
#2	0.95073	0.96909
Mean	**0.94165**	**0.96161**
%RSD	1.36372	1.10039

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:27
SampleId1 : CCB **SampleId2 :** **[CB]**
Analysis commenced : 9/25/2013 12:53:30
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD2

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00046	-0.05222	-0.00435	-0.00828	-0.00138	0.00001	0.00183	0.10062	0.00021
#2	-0.00070	-0.06053	0.00145	-0.01031	-0.00151	-0.00006	-0.00553	0.10103	0.00026
Mean	**-0.00058**	**-0.05638**	**-0.00145**	**-0.00930**	**-0.00145**	**-0.00003**	**-0.00185**	**0.10082**	**0.00024**
%RSD	28.90908	10.43218	282.97245	15.41124	6.30501	204.54273	281.64225	0.28588	14.65548

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00033	0.00010	-0.00115	-0.01164	0.00297	-0.00260	0.01359	-0.00020	-0.00292

#2	-0.00054	0.00138	-0.00127	-0.00609	0.01005	-0.00259	0.01589	-0.00033	-0.00172
Mean	**-0.00043**	**0.00074**	**-0.00121**	**-0.00886**	**0.00651**	**-0.00260**	**0.01474**	**-0.00027**	**-0.00232**
%RSD	34.57730	123.23930	7.46798	44.21324	76.93639	0.19618	11.00669	35.18659	36.42020

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.03925	-0.00060	-0.00633	0.00104	-0.00166	-0.00933	-0.00243	-0.00039	-0.00125
#2	0.03953	-0.00091	-0.00216	-0.00246	-0.00292	0.01180	0.00006	-0.00620	-0.00048
Mean	**0.03939**	**-0.00076**	**-0.00424**	**-0.00071**	**-0.00229**	**0.00124**	**-0.00118**	**-0.00329**	**-0.00087**
%RSD	0.50228	29.37804	69.59500	348.71893	38.93276	1207.38072	149.03086	124.60964	62.43549

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01934	-0.00070	-0.00011	-0.00170	-0.00183	-0.01704	0.00007	0.00012	0.00151
#2	-0.01742	0.00775	-0.00009	-0.00169	-0.00402	-0.01231	-0.00046	0.00164	0.00153
Mean	**-0.01838**	**0.00352**	**-0.00010**	**-0.00169**	**-0.00292**	**-0.01467**	**-0.00019**	**0.00088**	**0.00152**
%RSD	7.41220	169.49834	17.27421	0.53816	53.02918	22.79066	194.27252	122.10425	0.78170

	Pb	**Se**
	calc	calc
#1	-0.00076	-0.00096
#2	-0.00277	-0.00239
Mean	**-0.00177**	**-0.00167**
%RSD	80.34757	60.11439

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:27
SampleId1 : EX130923-2MB SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 12:55:05
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE11

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00047	-0.08118	-0.00303	-0.01042	-0.00009	0.00007	-0.00527	0.05538	-0.00027
#2	-0.00007	-0.08806	-0.00409	-0.01155	-0.00009	0.00003	-0.00223	0.05334	0.00036
Mean	**-0.00027**	**-0.08462**	**-0.00356**	**-0.01098**	**-0.00009**	**0.00005**	**-0.00375**	**0.05436**	**0.00004**
%RSD	104.97543	5.75228	20.95400	7.24575	0.00000	57.06533	57.35897	2.65104	1027.11368

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00106	0.00018	-0.00077	0.00792	0.04655	-0.00263	0.01072	-0.00033	-0.00186
#2	-0.00138	0.00019	-0.00077	0.00838	0.04873	-0.00263	0.00958	-0.00047	-0.00199
Mean	**-0.00122**	**0.00019**	**-0.00077**	**0.00815**	**0.04764**	**-0.00263**	**0.01015**	**-0.00040**	**-0.00192**
%RSD	18.35541	3.11547	0.31518	4.00816	3.23455	0.00000	7.99106	23.49507	4.88547

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	148.18975	0.00103	-0.00999	-0.00030	0.00224	-0.02342	-0.00168	0.00774	0.00349
#2	147.87405	-0.00013	0.00098	-0.00121	-0.00140	-0.00933	-0.00392	-0.00713	0.00349

Mean	**148.03190**	**0.00045**	**-0.00451**	**-0.00076**	**0.00042**	**-0.01637**	**-0.00280**	**0.00031**	**0.00349**
%RSD	0.15080	181.76477	172.10287	85.35315	613.83846	60.84398	56.67216	3428.50160	0.00511

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00107	0.00399	-0.00116	-0.00223	-0.00813	-0.00894	-0.00014	0.00393	0.00146
#2	-0.00379	0.00493	-0.00117	-0.00210	0.00590	-0.02111	-0.00035	0.00012	0.00152
Mean	**-0.00243**	**0.00446**	**-0.00116**	**-0.00216**	**-0.00112**	**-0.01503**	**-0.00025**	**0.00203**	**0.00149**
%RSD	79.19644	14.86816	0.73897	4.21161	888.72741	57.28792	62.04976	133.00482	3.27876

	Pb	**Se**
	calc	calc
#1	0.00139	0.00491
#2	-0.00134	-0.00005
Mean	**0.00003**	**0.00243**
%RSD	7127.79735	144.18490

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:27
SampleId1 : EX130923-2LCS SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 12:56:37
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE12

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09683	1.88903	0.97357	0.96644	1.03975	0.04698	-0.00582	37.20248	0.05115
#2	0.09661	1.90298	0.97761	0.96633	1.03971	0.04701	0.00128	36.99724	0.05088
Mean	**0.09672**	**1.89601**	**0.97559**	**0.96639**	**1.03973**	**0.04699**	**-0.00227**	**37.09986**	**0.05102**
%RSD	0.16439	0.52053	0.29296	0.00827	0.00296	0.03390	221.05810	0.39119	0.36608

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49786	0.20215	0.26121	0.93675	48.15521	0.56295	36.74677	0.50134	1.00785
#2	0.49775	0.20196	0.25982	0.93613	48.30876	0.56466	36.74440	0.50000	1.01106
Mean	**0.49780**	**0.20205**	**0.26052**	**0.93644**	**48.23199**	**0.56380**	**36.74559**	**0.50067**	**1.00945**
%RSD	0.01523	0.06373	0.37738	0.04697	0.22512	0.21401	0.00458	0.18858	0.22487

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	185.48673	0.49375	0.00411	0.46986	0.48263	-0.00933	0.47144	1.84657	1.83596
#2	184.35161	0.48996	0.00411	0.46533	0.49511	-0.00933	0.46970	1.82083	1.91195
Mean	**184.91917**	**0.49186**	**0.00411**	**0.46760**	**0.48887**	**-0.00933**	**0.47057**	**1.83370**	**1.87395**
%RSD	0.43405	0.54476	0.00000	0.68500	1.80488	0.00000	0.26122	0.99268	2.86737

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.06295	0.50061	0.49720	0.45439	2.18286	-0.03197	0.49312	0.49828	0.00569
#2	1.06136	0.49779	0.49624	0.45482	2.15087	-0.03602	0.49247	0.49215	0.00423
Mean	**1.06215**	**0.49920**	**0.49672**	**0.45461**	**2.16686**	**-0.03399**	**0.49280**	**0.49522**	**0.00496**

%RSD	0.10599	0.39998	0.13637	0.06625	1.04393	8.43923	0.09312	0.87515	20.77973

	Pb	Se
	calc	calc
#1	0.47838	1.83949
#2	0.48520	1.88161
Mean	**0.48179**	**1.86055**
%RSD	1.00017	1.60052

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:27
SampleId1 : 1309247-3 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 12:58:08
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE13

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00037	-0.07365	0.00066	-0.01020	0.04637	0.00014	0.00412	79.45134	0.00018
#2	-0.00091	-0.07758	-0.00356	-0.01076	0.04659	0.00015	0.00158	79.14838	0.00009
Mean	**-0.00064**	**-0.07561**	**-0.00145**	**-0.01048**	**0.04648**	**0.00015**	**0.00285**	**79.29986**	**0.00013**
%RSD	59.52029	3.67493	205.79187	3.79801	0.32734	4.88325	62.98687	0.27014	47.74511

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00100	0.00061	0.00215	0.01100	0.22584	-0.00200	1.08048	0.08826	-0.00066
#2	-0.00174	0.00043	0.00151	0.01131	0.21766	-0.00205	1.07990	0.08800	0.00093
Mean	**-0.00137**	**0.00052**	**0.00183**	**0.01115**	**0.22175**	**-0.00203**	**1.08019**	**0.08813**	**0.00014**
%RSD	38.16100	25.09477	24.43450	1.95271	2.60690	1.75878	0.03759	0.21297	826.66492

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	148.01569	0.00108	0.00046	-0.00118	0.00444	0.03294	0.00157	0.00587	0.01738
#2	148.11202	0.00139	0.01612	-0.00139	0.00126	0.03998	0.00133	-0.00481	0.00715
Mean	**148.06386**	**0.00124**	**0.00829**	**-0.00128**	**0.00285**	**0.03646**	**0.00145**	**0.00053**	**0.01227**
%RSD	0.04601	18.00904	133.65353	11.51180	78.92472	13.66233	11.70646	1424.63624	58.96220

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09880	0.00399	0.08958	-0.00169	0.00272	-0.02923	-0.00030	0.17019	0.00132
#2	0.10121	0.00869	0.08981	-0.00189	0.00272	-0.02991	-0.00030	0.17248	0.00106
Mean	**0.10001**	**0.00634**	**0.08970**	**-0.00179**	**0.00272**	**-0.02957**	**-0.00030**	**0.17134**	**0.00119**
%RSD	1.70502	52.34544	0.18223	8.14555	0.01126	1.61786	0.04337	0.94514	15.33460

	Pb	Se
	calc	calc
#1	0.00257	0.01355
#2	0.00038	0.00317
Mean	**0.00147**	**0.00836**
%RSD	105.11461	87.81484

ted: 9/25/2013 15:20:42 User: STEVE WORKMAN
Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:28
SampleId1 : 1309247-3D SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 12:59:40
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE14

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00001	-0.06627	0.00778	-0.00986	0.04693	0.00024	-0.00425	79.29636	0.00033
#2	-0.00006	-0.06971	-0.00778	-0.01098	0.04719	0.00022	-0.00553	78.89888	0.00038
Mean	**-0.00003**	**-0.06799**	**0.00000**	**-0.01042**	**0.04706**	**0.00023**	**-0.00489**	**79.09762**	**0.00036**
%RSD	203.44373	3.58593867070.72996		7.63705	0.38796	5.14236	18.37772	0.35534	9.40567

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00110	0.00024	0.00189	0.63458	0.18523	-0.00217	1.07818	0.09012	-0.00066
#2	-0.00121	0.00075	0.00189	0.63365	0.17624	-0.00217	1.08162	0.08959	-0.00212
Mean	**-0.00116**	**0.00049**	**0.00189**	**0.63412**	**0.18074**	**-0.00217**	**1.07990**	**0.08986**	**-0.00139**
%RSD	6.45774	73.50924	0.07103	0.10372	3.51801	0.00000	0.22559	0.41776	74.26451

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	148.95187	0.00171	0.00829	0.00058	0.00325	0.01180	-0.00117	0.00448	0.00526
#2	148.62983	0.00134	-0.00529	-0.00024	0.00001	0.03294	0.00156	-0.00272	0.00129
Mean	**148.79085**	**0.00152**	**0.00150**	**0.00017**	**0.00163**	**0.02237**	**0.00019**	**0.00088**	**0.00328**
%RSD	0.15304	17.03382	640.12360	338.31679	140.44134	66.79935	1000.13207	577.99363	85.69554

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10329	0.00681	0.09091	-0.00234	-0.00516	-0.02159	-0.00042	0.17630	0.00102
#2	0.10601	0.01244	0.09094	-0.00221	0.00584	-0.02835	-0.00047	0.17325	0.00101
Mean	**0.10465**	**0.00962**	**0.09092**	**-0.00228**	**0.00034**	**-0.02497**	**-0.00044**	**0.17477**	**0.00102**
%RSD	1.83877	41.37018	0.02839	3.99733	2283.15852	19.14763	8.53450	1.23547	1.22909

	Pb	**Se**
	calc	calc
#1	0.00236	0.00500
#2	-0.00007	-0.00005
Mean	**0.00115**	**0.00248**
%RSD	150.21300	144.00144

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:28
SampleId1 : 1309247-3L 5X SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:01:11
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE15

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00053	-0.06294	0.00356	-0.00626	0.00903	0.00019	-0.00451	16.09057	0.00004
#2	-0.00061	-0.06004	-0.00673	-0.00648	0.00903	0.00016	0.00209	16.08763	-0.00024
Mean	**-0.00057**	**-0.06149**	**-0.00158**	**-0.00637**	**0.00903**	**0.00018**	**-0.00121**	**16.08910**	**-0.00010**
%RSD	10.16785	3.33217	459.86976	2.49915	0.00000	13.63752	385.11994	0.01291	194.34229

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00084	-0.00008	-0.00039	-0.00425	0.02939	-0.00247	0.23273	0.01809	-0.00146
#2	-0.00116	-0.00014	-0.00001	-0.00409	0.03430	-0.00246	0.23445	0.01809	-0.00292
Mean	**-0.00100**	**-0.00011**	**-0.00020**	**-0.00417**	**0.03184**	**-0.00247**	**0.23359**	**0.01809**	**-0.00219**
%RSD	22.44112	32.50268	135.71719	2.61183	10.88854	0.20650	0.52102	0.00000	47.21574

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	27.95704	-0.00128	-0.00163	-0.00058	-0.00166	-0.00228	0.00131	0.00820	-0.00399
#2	27.87315	0.00013	0.00724	-0.00016	0.00013	-0.00228	-0.00118	-0.00597	0.00120
Mean	**27.91510**	**-0.00057**	**0.00281**	**-0.00037**	**-0.00077**	**-0.00228**	**0.00007**	**0.00112**	**-0.00140**
%RSD	0.21251	174.49069	223.77249	79.95507	164.49609	0.00000	2677.41825	897.09133	262.37330

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01320	-0.00164	0.01807	-0.00179	-0.00510	-0.02381	-0.00030	0.03670	0.00111
#2	0.01255	0.01056	0.01803	-0.00178	0.00509	-0.01705	-0.00019	0.03670	0.00109
Mean	**0.01288**	**0.00446**	**0.01805**	**-0.00178**	**-0.00001**	**-0.02043**	**-0.00025**	**0.03670**	**0.00110**
%RSD	3.56501	193.33135	0.14275	0.51094117	652.15019	23.41045	30.60618	0.00000	1.09318

	Pb	Se
	calc	calc
#1	-0.00130	0.00007
#2	0.00003	-0.00119
Mean	**-0.00063**	**-0.00056**
%RSD	148.05599	158.09695

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:28
SampleId1 : 1309247-3MS SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:02:43
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE16

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09677	1.89043	0.95418	0.95955	1.08338	0.04554	-0.00253	115.95015	0.04960
#2	0.09785	1.88264	0.94879	0.95559	1.07837	0.04545	-0.00177	116.20190	0.04925
Mean	**0.09731**	**1.88654**	**0.95148**	**0.95757**	**1.08087**	**0.04550**	**-0.00215**	**116.07602**	**0.04942**
%RSD	0.78841	0.29189	0.40031	0.29211	0.32728	0.13942	25.02559	0.15336	0.49685

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo

	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.48371	0.19475	0.26589	0.91125	49.80192	0.58256	37.62599	0.56920	0.98123
#2	0.48349	0.19498	0.26500	0.90891	49.71134	0.58091	37.59564	0.57081	0.98177
Mean	**0.48360**	**0.19487**	**0.26545**	**0.91008**	**49.75663**	**0.58173**	**37.61081**	**0.57000**	**0.98150**
%RSD	0.03220	0.08235	0.23634	0.18121	0.12872	0.20042	0.05706	0.19897	0.03854

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	183.56138	0.48191	0.00986	0.46575	0.47837	0.04702	0.46881	1.83335	1.83348
#2	183.12471	0.48159	-0.00059	0.46544	0.48288	0.03294	0.47232	1.82202	1.91210
Mean	**183.34305**	**0.48175**	**0.00463**	**0.46559**	**0.48063**	**0.03998**	**0.47056**	**1.82768**	**1.87279**
%RSD	0.16841	0.04635	159.40443	0.04843	0.66308	24.91753	0.52838	0.43838	2.96845

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.15713	0.48745	0.58409	0.44231	2.17286	-0.03195	0.47759	0.63246	0.00207
#2	1.15858	0.48839	0.58161	0.44270	2.15490	-0.02586	0.47949	0.62939	0.00202
Mean	**1.15785**	**0.48792**	**0.58285**	**0.44251**	**2.16388**	**-0.02890**	**0.47854**	**0.63092**	**0.00204**
%RSD	0.08828	0.13631	0.30009	0.06187	0.58685	14.89531	0.27946	0.34397	1.78975

	Pb	**Se**
	calc	calc
#1	0.47417	1.83343
#2	0.47707	1.88210
Mean	**0.47562**	**1.85777**
%RSD	0.43114	1.85235

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:28
SampleId1 : 1309247-3MSD **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 13:04:14
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE17

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09553	1.87800	0.98300	0.96611	1.07676	0.04603	0.00178	117.76062	0.05011
#2	0.09490	1.88087	0.97330	0.96509	1.07498	0.04606	-0.00432	117.73764	0.04973
Mean	**0.09522**	**1.87943**	**0.97815**	**0.96560**	**1.07587**	**0.04604**	**-0.00127**	**117.74913**	**0.04992**
%RSD	0.46424	0.10795	0.70130	0.07449	0.11722	0.04520	339.12413	0.01380	0.53377

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.48710	0.19660	0.26222	0.91715	49.36042	0.57829	37.84620	0.57401	0.98471
#2	0.48603	0.19604	0.26222	0.91513	49.36544	0.57904	37.86763	0.57388	0.98832
Mean	**0.48656**	**0.19632**	**0.26222**	**0.91614**	**49.36293**	**0.57866**	**37.85692**	**0.57395**	**0.98651**
%RSD	0.15485	0.20087	0.00036	0.15602	0.00720	0.09150	0.04003	0.01647	0.25882

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	182.69403	0.49023	0.00933	0.46877	0.48760	0.04702	0.47409	1.83760	1.87650
#2	183.05617	0.48381	0.01769	0.46750	0.49151	0.02589	0.47512	1.82107	1.91117
Mean	**182.87510**	**0.48702**	**0.01351**	**0.46814**	**0.48956**	**0.03646**	**0.47460**	**1.82933**	**1.89384**
%RSD	0.14003	0.93221	43.73137	0.19203	0.56515	40.98694	0.15288	0.63883	1.29457

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.15458	0.49121	0.58143	0.44384	2.16024	-0.03466	0.48149	0.64090	0.00161
#2	1.15668	0.48556	0.58103	0.44424	2.17764	-0.02992	0.48079	0.64320	0.00149
Mean	**1.15563**	**0.48839**	**0.58123**	**0.44404**	**2.16894**	**-0.03229**	**0.48114**	**0.64205**	**0.00155**
%RSD	0.12855	0.81754	0.04791	0.06371	0.56724	10.37065	0.10344	0.25354	5.50650

	Pb	**Se**
	calc	calc
#1	0.48133	1.86354
#2	0.48352	1.88117
Mean	**0.48242**	**1.87236**
%RSD	0.32047	0.66554

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:28
SampleId1 : 1309247-4 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 13:06:16
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE18

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00000	-0.06726	-0.00198	-0.00997	0.04925	0.00033	-0.00398	77.90083	0.00058
#2	-0.00037	-0.06864	-0.00277	-0.00896	0.04900	0.00030	0.00134	77.74296	0.00020
Mean	**-0.00018**	**-0.06795**	**-0.00237**	**-0.00946**	**0.04912**	**0.00031**	**-0.00132**	**77.82190**	**0.00039**
%RSD	143.86081	1.43833	23.57553	7.56816	0.37165	6.37480	284.83900	0.14344	68.72343

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00068	0.00166	0.00720	0.01670	0.18278	-0.00203	1.17465	0.12411	0.00093
#2	-0.00089	0.00094	0.00632	0.01700	0.17951	-0.00204	1.15685	0.12397	-0.00172
Mean	**-0.00078**	**0.00130**	**0.00676**	**0.01685**	**0.18115**	**-0.00204**	**1.16575**	**0.12404**	**-0.00039**
%RSD	19.12220	39.52537	9.20525	1.29249	1.27639	0.49984	1.07982	0.07570	475.60175

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	148.88367	0.00171	0.01038	0.00447	-0.00200	0.02589	0.00107	0.00774	0.00212
#2	148.42404	-0.00008	0.01038	0.00101	-0.00020	0.03998	-0.00068	0.01075	0.00639
Mean	**148.65385**	**0.00082**	**0.01038**	**0.00274**	**-0.00110**	**0.03294**	**0.00020**	**0.00925**	**0.00425**
%RSD	0.21864	154.52403	0.00000	89.23707	115.90244	30.24659	633.75770	23.01087	71.07917

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10826	0.00024	0.09495	-0.00223	-0.00465	-0.01233	-0.00008	0.22976	0.00140

#2	0.10553	-0.00351	0.09479	-0.00214	0.00277	-0.03126	-0.00024	0.22517	0.00114
Mean	**0.10690**	**-0.00164**	**0.09487**	**-0.00218**	**-0.00094**	**-0.02180**	**-0.00016**	**0.22747**	**0.00127**
%RSD	1.80591	162.10804	0.11790	2.92202	557.52361	61.43495	71.42470	1.42475	14.26412

	Pb	**Se**
	calc	calc
#1	0.00016	0.00399
#2	0.00020	0.00784
Mean	**0.00018**	**0.00592**
%RSD	19.19944	46.06167

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:29
SampleId1 : F130923-1MB SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:07:47
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE19

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00022	-0.08083	0.00092	-0.01346	-0.00160	0.00023	0.00082	0.02399	-0.00018
#2	0.00001	-0.08029	-0.00066	-0.01301	-0.00151	0.00018	-0.00198	0.05864	-0.00011
Mean	**-0.00010**	**-0.08056**	**0.00013**	**-0.01323**	**-0.00155**	**0.00021**	**-0.00058**	**0.04131**	**-0.00014**
%RSD	158.15172	0.46764	844.67545	2.40532	3.91261	18.05153	340.07699	59.29313	34.20010

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00033	0.00033	-0.00076	-0.00825	0.00651	-0.00266	0.00728	-0.00047	-0.00358
#2	-0.00043	-0.00008	-0.00114	-0.00794	0.00406	-0.00266	0.01015	-0.00047	-0.00132
Mean	**-0.00038**	**0.00012**	**-0.00095**	**-0.00809**	**0.00528**	**-0.00266**	**0.00872**	**-0.00047**	**-0.00245**
%RSD	19.65332	237.91907	28.08291	2.68990	32.81054	0.00000	23.26395	0.00000	65.06987

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10134	-0.00128	-0.00163	0.00076	-0.00279	-0.02342	-0.00268	0.00611	-0.00232
#2	0.13985	-0.00181	0.00411	-0.00104	-0.00093	-0.01637	0.00156	0.00216	-0.00186
Mean	**0.12060**	**-0.00154**	**0.00124**	**-0.00014**	**-0.00186**	**-0.01989**	**-0.00056**	**0.00413**	**-0.00209**
%RSD	22.57613	24.01722	327.93519	923.65117	70.64727	25.03618	537.45526	67.56403	15.52415

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01437	0.00305	-0.00125	-0.00181	0.00093	-0.02381	-0.00046	0.00088	0.00106
#2	-0.01116	0.00118	-0.00119	-0.00183	-0.00183	-0.02516	-0.00052	-0.00140	0.00135
Mean	**-0.01277**	**0.00212**	**-0.00122**	**-0.00182**	**-0.00045**	**-0.02448**	**-0.00049**	**-0.00026**	**0.00121**
%RSD	17.80677	62.72207	3.51137	0.50010	432.25359	3.90737	7.81671	620.65428	17.01403

	Pb	**Se**
	calc	calc
#1	-0.00160	0.00049
#2	-0.00097	-0.00052

Mean	**-0.00129**	**-0.00002**	**ser: STEVE WORKMAN**
%RSD	35.18751	4712.39863	

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:29
SampleId1 : F130923-1LCS SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:10:58
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE20

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09981	1.97341	1.04503	1.05032	1.08642	0.04848	0.00031	40.00275	0.05279
#2	0.09973	1.98009	1.04503	1.05519	1.08764	0.04856	-0.00299	40.00188	0.05255
Mean	**0.09977**	**1.97675**	**1.04503**	**1.05276**	**1.08703**	**0.04852**	**-0.00134**	**40.00232**	**0.05267**
%RSD	0.05226	0.23884	0.00000	0.32656	0.07924	0.11860	174.53132	0.00154	0.31744

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.51946	0.21148	0.26754	0.97486	42.30467	0.50495	40.36466	0.52591	1.03901
#2	0.51839	0.21065	0.26716	0.97719	42.41791	0.50638	40.47206	0.52591	1.03099
Mean	**0.51892**	**0.21106**	**0.26735**	**0.97603**	**42.36129**	**0.50567**	**40.41836**	**0.52591**	**1.03500**
%RSD	0.14484	0.27731	0.09992	0.16908	0.18902	0.19935	0.18790	0.00000	0.54840

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	41.32044	0.52270	10.43195	0.49519	0.51868	10.39990	0.51050	2.08252	2.12513
#2	41.40180	0.52165	10.45902	0.49440	0.51835	10.47108	0.50494	2.10145	2.15413
Mean	**41.36112**	**0.52217**	**10.44549**	**0.49479**	**0.51851**	**10.43549**	**0.50772**	**2.09199**	**2.13963**
%RSD	0.13908	0.14257	0.18328	0.11319	0.04484	0.48235	0.77545	0.63989	0.95828

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.06427	0.52035	0.51918	0.47026	2.23200	-0.02929	0.51147	0.51360	0.00089
#2	1.06484	0.51188	0.51912	0.47130	2.29435	-0.03538	0.51077	0.51514	0.00094
Mean	**1.06455**	**0.51612**	**0.51915**	**0.47078**	**2.26317**	**-0.03233**	**0.51112**	**0.51437**	**0.00091**
%RSD	0.03792	1.16066	0.00837	0.15704	1.94784	13.31438	0.09730	0.21068	3.98202

	Pb	**Se**
	calc	calc
#1	0.51086	2.11094
#2	0.51037	2.13659
Mean	**0.51062**	**2.12376**
%RSD	0.06690	0.85384

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:29
SampleId1 : CCV SampleId2 : [CV]
Analysis commenced : 9/25/2013 13:12:47
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD1

Final concentrations **0:43** **User: STEVE WORKMAN**

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19887	48.45244	0.50814	1.00002	1.01753	0.48539	0.51465	48.87903	0.50308
#2	0.19708	48.44711	0.49720	0.99459	1.01675	0.48477	0.51084	48.69781	0.50280
Mean	**0.19798**	**48.44978**	**0.50267**	**0.99730**	**1.01714**	**0.48508**	**0.51274**	**48.78842**	**0.50294**
%RSD	0.64139	0.00777	1.53836	0.38471	0.05440	0.09030	0.52472	0.26266	0.04002

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.50027	0.98949	1.01450	19.74376	50.80915	0.50372	48.10849	0.99502	1.00744
#2	0.49984	0.98689	1.01501	19.70660	50.88535	0.50442	48.05560	0.99435	1.01386
Mean	**0.50006**	**0.98819**	**1.01475**	**19.72518**	**50.84725**	**0.50407**	**48.08205**	**0.99469**	**1.01065**
%RSD	0.06048	0.18626	0.03522	0.13322	0.10596	0.09747	0.07777	0.04780	0.44921

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	50.81998	1.00436	4.85332	0.94225	0.97058	4.89136	0.48064	0.98321	0.97503
#2	50.74033	0.99887	4.84474	0.94517	0.99317	4.91967	0.48797	0.96001	1.00486
Mean	**50.78015**	**1.00162**	**4.84903**	**0.94371**	**0.98188**	**4.90551**	**0.48430**	**0.97161**	**0.98995**
%RSD	0.11091	0.38775	0.12518	0.21903	1.62736	0.40817	1.06959	1.68830	2.13062

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.62590	0.97837	0.50280	0.45475	0.51641	4.91106	0.48352	1.00689	0.97086
#2	4.61978	0.97365	0.50194	0.45554	0.50393	4.91380	0.48210	0.98840	0.97110
Mean	**4.62284**	**0.97601**	**0.50237**	**0.45515**	**0.51017**	**4.91243**	**0.48281**	**0.99764**	**0.97098**
%RSD	0.09361	0.34187	0.12103	0.12232	1.72943	0.03939	0.20765	1.31042	0.01750

	Pb	**Se**
	calc	calc
#1	0.96114	0.97776
#2	0.97719	0.98993
Mean	**0.96917**	**0.98384**
%RSD	1.17070	0.87473

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:29
SampleId1 : CCB **SampleId2 :** **[CB]**
Analysis commenced : 9/25/2013 13:14:24
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD2

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00032	-0.04671	-0.00040	-0.00637	-0.00138	0.00017	-0.00655	0.11040	-0.00005
#2	-0.00077	-0.05060	0.00040	-0.00761	-0.00143	0.00010	-0.00248	0.10836	0.00036
Mean	**-0.00023**	**-0.04865**	**0.00000**	**-0.00699**	**-0.00140**	**0.00013**	**-0.00452**	**0.10938**	**0.00015**
%RSD	341.15539	5.65440	93802.11105	12.52770	2.16605	34.59864	63.60938	1.31754	190.23189

ted: 9/25/2013 15:20:43 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00001	0.00028	-0.00152	-0.00363	0.02067	-0.00245	0.02162	0.00006	0.00000
#2	-0.00086	0.00079	-0.00140	-0.00686	0.01359	-0.00247	0.01761	-0.00020	-0.00093
Mean	**-0.00043**	**0.00054**	**-0.00146**	**-0.00525**	**0.01713**	**-0.00246**	**0.01962**	**-0.00007**	**-0.00046**
%RSD	137.90324	66.76280	6.10254	43.57998	29.23079	0.51737	14.47413	277.52153	142.49743

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.05632	0.00003	0.00516	-0.00171	-0.00007	-0.00933	-0.00241	-0.00202	0.00593
#2	0.05347	-0.00181	-0.00424	-0.00472	0.00245	0.00476	0.00455	0.00565	0.00639
Mean	**0.05489**	**-0.00089**	**0.00046**	**-0.00321**	**0.00119**	**-0.00228**	**0.00107**	**0.00181**	**0.00616**
%RSD	3.67739	146.08352	1459.71384	66.10701	149.45067	436.07020	460.45827	299.09022	5.25354

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01725	-0.00352	-0.00006	-0.00125	0.00121	-0.02246	-0.00025	0.00164	0.00213
#2	-0.01709	0.00962	-0.00004	-0.00145	0.00478	-0.02110	-0.00036	0.00088	0.00170
Mean	**-0.01717**	**0.00305**	**-0.00005**	**-0.00135**	**0.00300**	**-0.02178**	**-0.00030**	**0.00126**	**0.00191**
%RSD	0.64357	304.20844	33.77756	10.78585	84.42302	4.39958	25.23954	42.64322	15.84748

	Pb	Se
	calc	calc
#1	-0.00061	0.00328
#2	0.00006	0.00614
Mean	**-0.00028**	**0.00471**
%RSD	173.51846	42.89719

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:29
SampleId1 : F130923-1LCSD SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:16:12
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE21

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10088	1.95449	1.05286	1.04546	1.07985	0.04819	0.00209	40.07004	0.05288
#2	0.09863	1.94154	1.04233	1.03936	1.07576	0.04804	0.00030	39.77866	0.05236
Mean	**0.09975**	**1.94802**	**1.04760**	**1.04241**	**1.07781**	**0.04811**	**0.00120**	**39.92435**	**0.05262**
%RSD	1.59314	0.46988	0.71043	0.41415	0.26827	0.22958	105.43973	0.51606	0.69742

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.51435	0.21069	0.26652	0.97315	42.40621	0.50662	40.44103	0.52431	1.02938
#2	0.51392	0.20852	0.26614	0.96910	42.27278	0.50428	40.31275	0.52124	1.02243
Mean	**0.51414**	**0.20960**	**0.26633**	**0.97113**	**42.33949**	**0.50545**	**40.37689**	**0.52277**	**1.02590**
%RSD	0.05862	0.73105	0.10020	0.29454	0.22283	0.32635	0.22465	0.41553	0.47946

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	41.67795	0.51781	10.42256	0.49755	0.51210	10.24331	0.49764	2.07235	2.09924
#2	41.41636	0.51423	10.29718	0.48978	0.51608	10.19349	0.49786	2.04892	2.13676
Mean	**41.54716**	**0.51602**	**10.35987**	**0.49367**	**0.51409**	**10.21840**	**0.49775**	**2.06063**	**2.11800**
%RSD	0.44520	0.49049	0.85573	1.11223	0.54778	0.34474	0.03115	0.80399	1.25256

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.06498	0.50624	0.51637	0.46955	2.25363	-0.02253	0.51001	0.51054	0.00433
#2	1.06089	0.51377	0.51465	0.46742	2.19018	-0.02996	0.50698	0.50671	0.00347
Mean	**1.06293**	**0.51000**	**0.51551**	**0.46848**	**2.22190**	**-0.02624**	**0.50849**	**0.50862**	**0.00390**
%RSD	0.27214	1.04423	0.23596	0.32147	2.01918	20.03539	0.42152	0.53263	15.51533

	Pb	Se
	calc	calc
#1	0.50725	2.09029
#2	0.50733	2.10751
Mean	**0.50729**	**2.09890**
%RSD	0.00985	0.58021

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:29
SampleId1 : 1309158-1 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:17:58
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE22

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00199	-0.06601	0.00092	0.00005	0.37148	0.00035	-0.00248	10.14612	-0.00042
#2	-0.00152	-0.07101	-0.00251	-0.00029	0.36949	0.00025	-0.00959	10.08550	-0.00013
Mean	**-0.00176**	**-0.06851**	**-0.00079**	**-0.00012**	**0.37049**	**0.00030**	**-0.00604**	**10.11581**	**-0.00027**
%RSD	18.68680	5.15797	306.65342	195.17050	0.37910	23.54524	83.22579	0.42369	75.45270

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00086	-0.00095	0.00051	-0.00040	1.29758	0.00667	0.60457	0.01319	0.00107
#2	-0.00118	-0.00072	0.00063	-0.00086	1.28229	0.00659	0.59711	0.01306	0.00319
Mean	**-0.00102**	**-0.00083**	**0.00057**	**-0.00063**	**1.28993**	**0.00663**	**0.60084**	**0.01312**	**0.00213**
%RSD	22.10298	19.39593	15.64908	52.08662	0.83816	0.92124	0.87808	0.71439	70.59448

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	101.59661	-0.00097	0.00777	-0.00181	0.00147	1.59096	-0.00116	0.00958	0.00532
#2	100.89018	-0.00212	-0.00372	-0.00583	0.00352	1.61918	-0.00164	-0.00923	0.00501
Mean	**101.24340**	**-0.00154**	**0.00202**	**-0.00382**	**0.00249**	**1.60507**	**-0.00140**	**0.00018**	**0.00517**
%RSD	0.49339	52.83792	401.76679	74.50858	58.15315	1.24332	24.56346	7590.52074	4.18039

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr

	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.10196	0.00305	0.42795	-0.00127	0.00920	-0.04275	-0.00089	0.00850	-0.00004
#2	4.07826	-0.00258	0.42577	-0.00131	0.00067	-0.04004	-0.00116	0.00850	-0.00011
Mean	**4.09011**	**0.00024**	**0.42686**	**-0.00129**	**0.00494**	**-0.04139**	**-0.00103**	**0.00850**	**-0.00008**
%RSD	0.40976	1669.71272	0.36156	2.11300	122.23855	4.62158	18.47497	0.00000	59.94249

	Pb	**Se**
	calc	calc
#1	0.00038	0.00674
#2	0.00041	0.00027
Mean	**0.00039**	**0.00350**
%RSD	5.13267	130.51156

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:30
SampleId1 : 1309217-2 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:19:30
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE23

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00084	-0.05981	0.00224	0.00781	0.11064	0.00041	0.00005	3.70987	-0.00075
#2	-0.00100	-0.06141	0.00303	0.00669	0.11017	0.00033	-0.00604	3.69838	0.00019
Mean	**-0.00092**	**-0.06061**	**0.00264**	**0.00725**	**0.11040**	**0.00037**	**-0.00299**	**3.70413**	**-0.00028**
%RSD	12.21925	1.86932	21.20903	10.97786	0.30338	16.17795	143.93495	0.21933	237.39170

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00017	-0.00022	-0.00064	-0.00301	0.50578	0.01091	0.11053	0.00470	0.03121
#2	-0.00070	-0.00008	-0.00089	-0.00271	0.50332	0.01077	0.10881	0.00484	0.03174
Mean	**-0.00044**	**-0.00015**	**-0.00076**	**-0.00286**	**0.50455**	**0.01084**	**0.10967**	**0.00477**	**0.03147**
%RSD	85.97618	63.32223	23.57167	7.61437	0.34390	0.89236	1.10955	1.96478	1.19344

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	111.36063	-0.00065	0.00516	-0.00169	-0.00019	0.15270	0.00025	-0.00040	0.00028
#2	110.70444	-0.00102	-0.00163	-0.00378	-0.00065	0.14565	-0.00124	0.00727	0.00562
Mean	**111.03253**	**-0.00084**	**0.00176**	**-0.00273**	**-0.00042**	**0.14917**	**-0.00049**	**0.00343**	**0.00295**
%RSD	0.41789	31.04936	272.61967	53.92766	78.84385	3.33949	214.30225	157.90563	127.97245

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	3.39729	0.00493	0.12759	-0.00149	0.00203	-0.03192	-0.00025	0.00088	0.00154
#2	3.39093	0.00587	0.12696	-0.00147	0.00369	-0.02651	-0.00014	0.00241	0.00139
Mean	**3.39411**	**0.00540**	**0.12727**	**-0.00148**	**0.00286**	**-0.02922**	**-0.00019**	**0.00164**	**0.00147**
%RSD	0.13267	12.28811	0.35179	1.23088	40.89053	13.09225	39.22359	65.52783	7.37585

	Pb	**Se**
	calc	calc

#1	-0.00069	0.00005
#2	-0.00169	0.00617
Mean	**-0.00119**	**0.00311**
%RSD	59.78346	138.96862

ser: STEVE WORKMAN

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:30
SampleId1 : 1309218-2 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 13:21:01
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE24

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00091	-0.05298	0.00303	0.02155	0.00653	0.00038	-0.00042	27.51852	-0.00046
#2	-0.00007	-0.05447	0.00013	0.02233	0.00688	0.00036	-0.00042	27.47615	0.00027
Mean	**-0.00049**	**-0.05372**	**0.00158**	**0.02194**	**0.00670**	**0.00037**	**-0.00042**	**27.49734**	**-0.00010**
%RSD	121.24224	1.96434	129.58791	2.53958	3.62969	3.38598	0.59499	0.10895	539.83715

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00011	0.00094	0.01037	1.21040	4.19719	0.00014	4.12792	0.07964	-0.00053
#2	-0.00053	0.00060	0.01049	1.20759	4.18045	0.00015	4.12101	0.07977	0.00133
Mean	**-0.00032**	**0.00077**	**0.01043**	**1.20900**	**4.18882**	**0.00015**	**4.12447**	**0.07970**	**0.00040**
%RSD	93.78555	30.54297	0.83182	0.16420	0.28262	1.74005	0.11850	0.11773	327.09925

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	3.19494	-0.00133	0.23667	-0.00477	0.00308	1.03373	0.00132	-0.00203	0.00244
#2	3.25083	0.00108	0.21889	-0.00039	-0.00183	0.99848	0.00008	0.00635	0.00351
Mean	**3.22288**	**-0.00013**	**0.22778**	**-0.00258**	**0.00062**	**1.01610**	**0.00070**	**0.00216**	**0.00298**
%RSD	1.22623	1332.30161	5.51934	120.13561	556.41029	2.45351	124.58686	274.07042	25.35691

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.40513	0.00399	0.06389	-0.00042	0.00588	-0.03082	-0.00038	0.00850	0.00070
#2	1.40546	0.00211	0.06388	-0.00063	-0.00045	-0.01729	-0.00001	0.00850	0.00118
Mean	**1.40529**	**0.00305**	**0.06389**	**-0.00053**	**0.00271**	**-0.02406**	**-0.00019**	**0.00850**	**0.00094**
%RSD	0.01655	43.46733	0.01346	27.66618	164.86606	39.75960	137.21264	0.00000	36.22305

	Pb	**Se**
	calc	calc
#1	0.00047	0.00096
#2	-0.00135	0.00446
Mean	**-0.00044**	**0.00271**
%RSD	290.53627	91.45823

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:30
SampleId1 : 1309218-2L 5X **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 13:22:33

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE25

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00053	-0.05057	0.00435	-0.00029	0.00077	0.00031	-0.00095	5.47765	0.00006
#2	-0.00007	-0.06057	-0.00646	-0.00040	0.00077	0.00025	0.00260	5.49000	0.00049
Mean	**-0.00030**	**-0.05557**	**-0.00105**	**-0.00035**	**0.00077**	**0.00028**	**0.00082**	**5.48382**	**0.00028**
%RSD	107.82967	12.72611	725.40877	22.90663	0.00000	15.29517	305.09709	0.15925	109.38827

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00032	0.00005	0.00151	0.23949	0.67676	-0.00209	0.83073	0.01597	-0.00093
#2	-0.00043	0.00023	0.00176	0.24026	0.68003	-0.00208	0.83073	0.01597	-0.00292
Mean	**-0.00038**	**0.00014**	**0.00164**	**0.23988**	**0.67839**	**-0.00209**	**0.83073**	**0.01597**	**-0.00192**
%RSD	19.84249	90.96918	10.88171	0.22752	0.34114	0.36552	0.00000	0.00000	73.28217

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.60777	-0.00175	0.05112	-0.00179	-0.00142	0.19497	-0.00167	-0.00109	0.00459
#2	0.60494	-0.00055	0.04381	0.00199	-0.00288	0.18792	0.00205	0.00077	-0.00411
Mean	**0.60636**	**-0.00115**	**0.04746**	**0.00010**	**-0.00215**	**0.19145**	**0.00019**	**-0.00016**	**0.00024**
%RSD	0.32980	74.12168	10.89538	2648.62088	48.13208	2.60224	1377.31578	825.60892	2562.64878

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.27182	0.00587	0.01218	-0.00187	0.00451	-0.01926	-0.00046	0.00241	0.00098
#2	0.27197	0.00305	0.01220	-0.00190	0.00644	-0.01520	-0.00040	0.00545	0.00127
Mean	**0.27190**	**0.00446**	**0.01219**	**-0.00188**	**0.00548**	**-0.01723**	**-0.00043**	**0.00393**	**0.00112**
%RSD	0.03979	44.61405	0.14090	1.44905	24.91629	16.64851	8.90456	54.83459	18.37149

	Pb	Se
	calc	calc
#1	-0.00154	0.00270
#2	-0.00126	-0.00249
Mean	**-0.00140**	**0.00011**
%RSD	14.30018	3423.37832

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:30
SampleId1 : 1309218-2A SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:24:05
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE26

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00099	1.86556	1.00268	1.03755	1.08572	0.04694	-0.00198	26.78461	0.04944
#2	-0.00068	1.84918	0.99729	1.03280	1.07811	0.04697	-0.00071	26.85001	0.04930

Mean	**-0.00083**	**1.85737**	**0.99999**	**1.03517**	**1.08192**	**0.04696**	**-0.00134**	**26.81731**	**0.04937**
%RSD	26.87244	0.62349	0.38128	0.32436	0.49757	0.05317	66.56246	0.17244	0.20104

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49866	0.20427	0.27437	2.14458	4.17825	0.00034	4.06169	0.58618	0.99353
#2	0.50035	0.20451	0.27336	2.14805	4.14038	0.00031	4.04095	0.58805	0.99608
Mean	**0.49951**	**0.20439**	**0.27386**	**2.14632**	**4.15931**	**0.00032**	**4.05132**	**0.58712**	**0.99480**
%RSD	0.23879	0.08214	0.26062	0.11416	0.64388	7.09969	0.36188	0.22543	0.18062

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	3.18392	0.50902	0.22778	0.47021	0.48650	1.03373	0.49546	1.96401	1.94185
#2	3.15242	0.50949	0.22307	0.46746	0.49440	1.03373	0.47990	1.95432	2.03758
Mean	**3.16817**	**0.50925**	**0.22542**	**0.46883**	**0.49045**	**1.03373**	**0.48768**	**1.95916**	**1.98972**
%RSD	0.70308	0.06578	1.47623	0.41543	1.13923	0.00000	2.25514	0.35004	3.40188

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.53826	0.49214	0.57804	0.45557	2.09390	-0.02680	0.49650	0.49062	0.00077
#2	2.53077	0.48555	0.57460	0.45661	2.07428	-0.03627	0.49418	0.49905	0.00073
Mean	**2.53452**	**0.48884**	**0.57632**	**0.45609**	**2.08409**	**-0.03154**	**0.49534**	**0.49483**	**0.00075**
%RSD	0.20889	0.95300	0.42270	0.16209	0.66569	21.23413	0.33161	1.20426	3.10462

	Pb	**Se**
	calc	calc
#1	0.48108	1.94923
#2	0.48543	2.00985
Mean	**0.48325**	**1.97954**
%RSD	0.63697	2.16536

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:30
SampleId1 : 1309218-8 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 13:25:39
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE27

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00053	-0.06183	-0.00198	0.01209	0.00993	0.00046	-0.00298	33.30298	-0.00007
#2	-0.00014	-0.06255	-0.00488	0.01153	0.00993	0.00040	-0.00248	33.38163	-0.00023
Mean	**-0.00033**	**-0.06219**	**-0.00343**	**0.01181**	**0.00993**	**0.00043**	**-0.00273**	**33.34231**	**-0.00015**
%RSD	84.05335	0.81481	59.84062	3.37005	0.00000	10.33544	13.03848	0.16680	74.31187

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00032	0.00028	0.00012	0.24258	0.24818	0.00064	10.83590	0.03334	0.00332
#2	-0.00010	0.00038	-0.00013	0.24119	0.24519	0.00064	10.85097	0.03321	0.00266
Mean	**-0.00021**	**0.00033**	**0.00000**	**0.24188**	**0.24669**	**0.00064**	**10.84343**	**0.03327**	**0.00299**

%RSD	71.12269	21.10137	3799.78610	0.40616	0.85928	0.00000	0.09832	0.28180	15.69522

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.34722	0.00003	0.02500	-0.00196	-0.00294	6.34362	0.00034	0.00053	0.01620
#2	2.34103	-0.00097	0.01821	-0.00146	-0.00061	6.38616	-0.00190	0.00424	0.00780
Mean	**2.34412**	**-0.00047**	**0.02161**	**-0.00171**	**-0.00177**	**6.36489**	**-0.00078**	**0.00239**	**0.01200**
%RSD	0.18665	150.25475	22.22030	20.57858	92.77986	0.47257	204.05807	109.81608	49.49712

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.79081	0.00305	0.04618	0.00080	0.00261	-0.02332	-0.00035	0.00774	0.00093
#2	0.78643	-0.00258	0.04629	0.00065	0.00535	-0.03414	-0.00013	0.00545	0.00093
Mean	**0.78862**	**0.00024**	**0.04624**	**0.00072**	**0.00398**	**-0.02873**	**-0.00024**	**0.00660**	**0.00093**
%RSD	0.39335	1686.24626	0.16729	15.12358	48.73578	26.62900	62.90474	24.50157	0.06212

	Pb	Se
	calc	calc
#1	-0.00261	0.01098
#2	-0.00089	0.00662
Mean	**-0.00175**	**0.00880**
%RSD	69.33248	35.09049

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:31
SampleId1 : 1309218-12 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:27:11
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE28

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00030	-0.08220	0.00831	1.97635	0.01397	0.00075	-0.00085	22.91469	0.00319
#2	0.00001	-0.08324	0.00646	1.97760	0.01397	0.00073	-0.00313	22.94398	0.00344
Mean	**-0.00014**	**-0.08272**	**0.00739**	**1.97698**	**0.01397**	**0.00074**	**-0.00199**	**22.92933**	**0.00332**
%RSD	149.66847	0.88951	17.67768	0.04466	0.00000	1.69045	80.99384	0.09035	5.30189

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00031	0.00404	0.03502	67.49240	30.95367	0.00545	22.08371	0.63928	18.78075
#2	0.00043	0.00473	0.03514	67.52841	30.94102	0.00546	22.10188	0.63994	18.79081
Mean	**0.00006**	**0.00438**	**0.03508**	**67.51040**	**30.94735**	**0.00546**	**22.09280**	**0.63961**	**18.78578**
%RSD	831.95117	11.08961	0.25076	0.03772	0.02888	0.04665	0.05817	0.07396	0.03788

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	72.39250	0.00276	2.37213	0.00875	-0.01328	26.53657	0.01856	0.01613	0.00459
#2	72.28163	0.00171	2.40971	0.00505	-0.01514	26.39917	0.01364	0.00196	0.00703
Mean	**72.33706**	**0.00223**	**2.39092**	**0.00690**	**-0.01421**	**26.46787**	**0.01610**	**0.00904**	**0.00581**
%RSD	0.10837	33.23012	1.11148	37.87616	9.25600	0.36706	21.58421	110.79599	29.79221

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	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.76012	0.00868	0.22387	-0.00093	0.00020	0.02066	-0.00212	0.11677	-0.00715
#2	2.76946	0.01150	0.22398	-0.00094	0.00299	0.02807	-0.00244	0.11830	-0.00718
Mean	**2.76479**	**0.01009**	**0.22393**	**-0.00093**	**0.00159**	**0.02436**	**-0.00228**	**0.11754**	**-0.00717**
%RSD	0.23874	19.72722	0.03468	0.97675	124.06784	21.51070	9.70493	0.91798	0.35537

	Pb	Se
	calc	calc
#1	-0.00595	0.00843
#2	-0.00842	0.00534
Mean	**-0.00718**	**0.00689**
%RSD	24.33381	31.67551

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:31
SampleId1 : 1309258-1 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:28:42
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE29

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00039	0.59961	0.00409	0.01074	0.16241	0.00057	-0.00218	41.70290	-0.00032
#2	-0.00146	0.60508	-0.01279	0.01108	0.16379	0.00055	-0.00168	41.72787	-0.00035
Mean	**-0.00053**	**0.60235**	**-0.00435**	**0.01091**	**0.16310**	**0.00056**	**-0.00193**	**41.71539**	**-0.00033**
%RSD	245.99054	0.64282	274.34594	2.18894	0.59773	2.56665	18.57195	0.04233	6.72485

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00013	0.00083	0.00581	0.46746	0.59112	0.00625	6.88148	0.00484	0.04236
#2	-0.00076	-0.00014	0.00632	0.46174	0.58131	0.00631	6.90054	0.00470	0.03625
Mean	**-0.00044**	**0.00034**	**0.00606**	**0.46460**	**0.58622**	**0.00628**	**6.89101**	**0.00477**	**0.03931**
%RSD	100.79318	197.55603	5.93305	0.87140	1.18413	0.68862	0.19558	1.96478	10.98944

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	13.24221	-0.00081	0.01560	-0.00037	-0.00071	3.92200	0.00131	0.00728	-0.00194
#2	13.32724	-0.00091	0.00307	-0.00172	0.00148	3.95736	-0.00345	-0.00062	-0.00118
Mean	**13.28472**	**-0.00086**	**0.00933**	**-0.00105**	**0.00039**	**3.93968**	**-0.00107**	**0.00333**	**-0.00156**
%RSD	0.45261	8.60146	94.95846	91.26711	401.41994	0.63467	314.03431	167.88129	34.59197

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	9.82249	0.00398	0.12886	0.01244	-0.00737	-0.00591	-0.00024	0.02070	-0.00061
#2	9.88229	-0.00822	0.12949	0.01263	0.01134	-0.01537	0.00013	0.02146	-0.00052
Mean	**9.85239**	**-0.00212**	**0.12917**	**0.01254**	**0.00198**	**-0.01064**	**-0.00005**	**0.02108**	**-0.00056**
%RSD	0.42915	406.21588	0.34663	1.08945	667.29361	62.88985	500.27595	2.55689	11.52937

	Pb	Seser: STEVE WORKMAN
	calc	calc
#1	-0.00060	0.00113
#2	0.00042	-0.00099
Mean	**-0.00009**	**0.00007**
%RSD	788.13865	2185.46707

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:31
SampleId1 : 1309258-1D SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:30:14
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE30

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00038	0.69699	-0.00198	0.00973	0.16207	0.00055	-0.00015	41.60521	0.00046
#2	-0.00030	0.69084	-0.00145	0.00916	0.16147	0.00047	-0.00446	41.76029	-0.00040
Mean	**-0.00034**	**0.69391**	**-0.00171**	**0.00945**	**0.16177**	**0.00051**	**-0.00231**	**41.68275**	**0.00003**
%RSD	16.08127	0.62701	21.76428	4.21341	0.26366	11.67653	132.25737	0.26309	1991.83587

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00098	0.00046	0.00606	0.46715	0.59058	0.00626	6.88321	0.00457	0.01620
#2	-0.00035	0.00018	0.00644	0.46963	0.59303	0.00625	6.86473	0.00457	0.01647
Mean	**-0.00066**	**0.00032**	**0.00625**	**0.46839**	**0.59181**	**0.00625**	**6.87397**	**0.00457**	**0.01633**
%RSD	67.63370	60.78020	4.28970	0.37379	0.29324	0.16282	0.19012	0.00000	1.14959

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	13.24962	-0.00023	0.02500	0.00078	-0.00064	3.96444	0.00066	-0.00318	-0.00057
#2	13.19492	-0.00039	0.03284	0.00028	0.00036	3.90079	-0.00282	0.01494	-0.00118
Mean	**13.22227**	**-0.00031**	**0.02892**	**0.00053**	**-0.00014**	**3.93261**	**-0.00108**	**0.00588**	**-0.00087**
%RSD	0.29252	35.70340	19.15679	66.01120	498.63560	1.14446	228.80713	217.77145	49.52824

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	10.01591	0.00116	0.12897	0.01494	-0.00022	-0.01267	0.00046	0.02222	-0.00037
#2	10.01211	0.00210	0.12857	0.01494	0.00171	-0.01200	0.00078	0.02146	-0.00037
Mean	**10.01401**	**0.00163**	**0.12877**	**0.01494**	**0.00074**	**-0.01233**	**0.00062**	**0.02184**	**-0.00037**
%RSD	0.02684	40.78021	0.22067	0.00000	183.34650	3.86626	36.80711	2.46768	0.13485

	Pb	Se
	calc	calc
#1	-0.00017	-0.00144
#2	0.00033	0.00419
Mean	**0.00008**	**0.00138**
%RSD	428.07648	288.73163

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:31

SampleId1 : CCV **SampleId2 :** **[CV]**
Analysis commenced : 9/25/2013 13:33:57
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19903	47.98366	0.51107	0.99685	1.01871	0.48185	0.52302	48.60611	0.50621
#2	0.19738	48.35910	0.49427	0.99809	1.01718	0.48438	0.51592	48.92246	0.50618
Mean	**0.19821**	**48.17138**	**0.50267**	**0.99747**	**1.01795**	**0.48312**	**0.51947**	**48.76429**	**0.50619**
%RSD	0.58856	0.55111	2.36381	0.08815	0.10570	0.37044	0.96661	0.45873	0.00485

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49784	0.98280	1.01539	19.63230	50.67367	0.50227	47.90658	0.98843	1.01025
#2	0.50091	0.98879	1.01640	19.73382	50.85481	0.50440	48.08745	0.99301	1.01146
Mean	**0.49937**	**0.98579**	**1.01589**	**19.68306**	**50.76424**	**0.50333**	**47.99702**	**0.99072**	**1.01085**
%RSD	0.43510	0.42973	0.07043	0.36470	0.25230	0.29940	0.26647	0.32634	0.08421

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	50.93530	1.01017	4.83401	0.94267	0.95287	4.84888	0.48344	0.98462	0.95749
#2	51.14697	1.00605	4.88283	0.94355	0.98698	4.91967	0.48619	0.98275	1.00456
Mean	**51.04113**	**1.00811**	**4.85842**	**0.94311**	**0.96992**	**4.88428**	**0.48481**	**0.98368**	**0.98102**
%RSD	0.29324	0.28895	0.71062	0.06536	2.48689	1.02484	0.40092	0.13472	3.39273

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.65049	0.98970	0.50270	0.44991	0.51159	4.91724	0.48170	0.98532	0.96980
#2	4.68274	0.97743	0.50266	0.45264	0.51750	4.91852	0.48287	0.99148	0.97283
Mean	**4.66661**	**0.98356**	**0.50268**	**0.45128**	**0.51455**	**4.91788**	**0.48228**	**0.98840**	**0.97132**
%RSD	0.48864	0.88212	0.00691	0.42672	0.81307	0.01836	0.17125	0.44085	0.22100

	Pb	Se
	calc	calc
#1	0.94947	0.96652
#2	0.97252	0.99729
Mean	**0.96099**	**0.98191**
%RSD	1.69553	2.21597

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:31
SampleId1 : CCB **SampleId2 :** **[CB]**
Analysis commenced : 9/25/2013 13:39:58
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	0.00047	-0.04771	0.00356	-0.00682	-0.00130	0.00004	-0.00629	0.11040	-0.00023
#2	-0.00084	-0.04619	-0.00963	-0.00716	-0.00143	0.00005	-0.00376	0.10918	-0.00014
Mean	**-0.00019**	**-0.04695**	**-0.00303**	**-0.00699**	**-0.00136**	**0.00005**	**-0.00502**	**0.10979**	**-0.00018**
%RSD	497.42375	2.27996	307.53675	3.41664	6.70350	20.03852	35.67090	0.78759	35.15655

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00033	0.00000	-0.00153	-0.00994	0.02885	-0.00248	0.02220	-0.00007	-0.00039
#2	-0.00117	0.00005	-0.00178	-0.00979	0.01250	-0.00249	0.01646	-0.00020	-0.00132
Mean	**-0.00075**	**0.00003**	**-0.00165**	**-0.00986**	**0.02067**	**-0.00248**	**0.01933**	**-0.00013**	**-0.00086**
%RSD	79.72457	138.80735	10.68484	1.10354	55.90147	0.41000	20.98413	70.03911	76.46069

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.04854	-0.00097	-0.00633	0.00270	-0.00279	-0.02342	0.00182	0.00333	-0.00018
#2	0.04809	-0.00165	-0.00581	-0.00083	0.00265	-0.02342	0.00057	-0.00342	-0.00125
Mean	**0.04832**	**-0.00131**	**-0.00607**	**0.00094**	**-0.00007**	**-0.02342**	**0.00119**	**-0.00004**	**-0.00071**
%RSD	0.65528	36.85564	6.08087	266.59004	5537.15794	0.00000	74.08506	10679.83960	105.99958

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01758	0.00681	-0.00001	-0.00157	0.01029	-0.01366	0.00029	-0.00064	0.00165
#2	-0.01693	0.00869	-0.00004	-0.00179	0.00808	-0.02583	-0.00047	-0.00064	0.00144
Mean	**-0.01725**	**0.00775**	**-0.00003**	**-0.00168**	**0.00919**	**-0.01975**	**-0.00009**	**-0.00064**	**0.00154**
%RSD	2.66113	17.13523	64.66923	9.21883	16.99450	43.59250	602.99809	0.00000	9.42746

	Pb	**Se**
	calc	calc
#1	-0.00096	0.00099
#2	0.00149	-0.00197
Mean	**0.00027**	**-0.00049**
%RSD	653.17040	426.64394

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:32
SampleId1 : 1309258-1L 5X SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:41:35
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE31

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00099	0.09193	0.00145	-0.00333	0.03196	0.00018	0.00311	8.28590	-0.00033
#2	-0.00076	0.08297	0.00198	-0.00333	0.03183	0.00008	-0.00248	8.30618	-0.00016
Mean	**-0.00088**	**0.08745**	**0.00172**	**-0.00333**	**0.03189**	**0.00013**	**0.00032**	**8.29604**	**-0.00024**
%RSD	18.70697	7.24167	21.74999	0.00000	0.28619	52.49057	1250.86748	0.17282	50.29884

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00166	-0.00050	0.00025	0.08248	0.07925	-0.00110	1.37452	0.00046	0.00226

#2	-0.00071	-0.00004	0.00088	0.08309	0.08660	-0.00110	1.36762	0.00060	0.00000
Mean	**-0.00119**	**-0.00027**	**0.00056**	**0.08278**	**0.08292**	**-0.00110**	**1.37107**	**0.00053**	**0.00113**
%RSD	56.77398	122.33879	79.28336	0.52653	6.27252	0.00000	0.35547	17.72021	140.98298

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	2.30182	0.00013	-0.00947	-0.00530	-0.00092	0.75172	0.00034	-0.00040	-0.00184
#2	2.27616	-0.00065	-0.00059	-0.00134	-0.00052	0.77286	-0.00365	-0.00411	-0.00352
Mean	**2.28899**	**-0.00026**	**-0.00503**	**-0.00332**	**-0.00072**	**0.76229**	**-0.00166**	**-0.00226**	**-0.00268**
%RSD	0.79266	214.64351	124.85003	84.26961	38.87583	1.96176	170.52587	116.50056	44.24541

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.93482	0.00774	0.02544	0.00093	0.00901	-0.02726	-0.00082	0.00241	0.00096
#2	1.92586	0.00774	0.02533	0.00099	0.00377	-0.02793	-0.00050	0.00164	0.00125
Mean	**1.93034**	**0.00774**	**0.02538**	**0.00096**	**0.00639**	**-0.02759**	**-0.00066**	**0.00203**	**0.00111**
%RSD	0.32844	0.00068	0.30454	4.73893	57.89833	1.73420	34.77852	26.60122	18.75336

	Pb	**Se**
	calc	calc
#1	-0.00238	-0.00136
#2	-0.00080	-0.00372
Mean	**-0.00159**	**-0.00254**
%RSD	70.50125	65.60516

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:32
SampleId1 : 1309258-1MS **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 13:43:07
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE32

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09940	2.94790	1.06096	1.06593	1.23402	0.04787	0.00492	80.33312	0.05212
#2	0.09917	2.93162	1.06177	1.06706	1.22962	0.04807	0.00035	80.86347	0.05252
Mean	**0.09928**	**2.93976**	**1.06136**	**1.06649**	**1.23182**	**0.04797**	**0.00263**	**80.59830**	**0.05232**
%RSD	0.16604	0.39143	0.05396	0.07497	0.25262	0.29138	122.88098	0.46529	0.55171

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.50733	0.20560	0.27677	1.46405	44.79883	0.54250	46.75054	0.51482	1.02858
#2	0.50902	0.20597	0.27411	1.47046	44.46349	0.53803	46.68872	0.51669	1.03554
Mean	**0.50817**	**0.20579**	**0.27544**	**1.46725**	**44.63116**	**0.54027**	**46.71963**	**0.51576**	**1.03206**
%RSD	0.23530	0.12609	0.68228	0.30903	0.53131	0.58473	0.09357	0.25635	0.47662

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	57.55089	0.51407	10.65418	0.48514	0.51320	14.22967	0.50519	2.07046	2.07885
#2	57.13270	0.51591	10.61104	0.48834	0.51380	14.18680	0.49443	2.07945	2.13280

Mean	**57.34180**	**0.51499**	**10.63261**	**0.48674**	**0.51350**	**14.20824**	**0.49981**	**2.07495**	**2.10583**
%RSD	0.51568	0.25296	0.28690	0.46487	0.08194	0.21336	1.52239	0.30654	1.81151

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	11.12005	0.50529	0.63856	0.47532	2.25499	-0.02020	0.50169	0.51744	0.00325
#2	11.12156	0.50811	0.63675	0.47654	2.21990	-0.01614	0.50364	0.52127	0.00246
Mean	**11.12081**	**0.50670**	**0.63766**	**0.47593**	**2.23745**	**-0.01817**	**0.50266**	**0.51935**	**0.00286**
%RSD	0.00964	0.39380	0.20086	0.18220	1.10890	15.77252	0.27403	0.52169	19.51455

	Pb	**Se**
	calc	calc
#1	0.50386	2.07606
#2	0.50532	2.11504
Mean	**0.50459**	**2.09555**
%RSD	0.20494	1.31528

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:32
SampleId1 : 1309258-1MSD SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:44:38
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE33

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09887	2.92926	1.05502	1.06842	1.23850	0.04783	0.00212	79.09133	0.05177
#2	0.09855	2.90637	1.03963	1.06174	1.23057	0.04767	0.00111	79.40261	0.05158
Mean	**0.09871**	**2.91782**	**1.04733**	**1.06508**	**1.23454**	**0.04775**	**0.00162**	**79.24697**	**0.05168**
%RSD	0.22813	0.55459	1.03859	0.44291	0.45422	0.23067	44.56613	0.27775	0.26020

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.50606	0.20357	0.27778	1.44700	44.95512	0.54529	46.69292	0.51296	1.03580
#2	0.50616	0.20463	0.27588	1.44966	44.55010	0.54051	46.51528	0.51349	1.03259
Mean	**0.50611**	**0.20410**	**0.27683**	**1.44833**	**44.75261**	**0.54290**	**46.60410**	**0.51322**	**1.03420**
%RSD	0.01334	0.36602	0.48537	0.12978	0.63995	0.62222	0.26953	0.07360	0.21953

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	57.17874	0.51644	10.48058	0.48587	0.50565	13.77962	0.50248	2.08158	2.06010
#2	56.83811	0.51259	10.46179	0.48771	0.50670	13.72962	0.49944	2.08844	2.13776
Mean	**57.00843**	**0.51452**	**10.47118**	**0.48679**	**0.50617**	**13.75462**	**0.50096**	**2.08501**	**2.09893**
%RSD	0.42250	0.52808	0.12688	0.26688	0.14692	0.25701	0.42841	0.23296	2.61636

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	10.93164	0.51094	0.63928	0.47412	2.26873	-0.02695	0.50038	0.51284	0.00022
#2	10.89652	0.50435	0.63605	0.47395	2.22690	-0.01748	0.50120	0.51590	0.00040
Mean	**10.91408**	**0.50764**	**0.63766**	**0.47403**	**2.24781**	**-0.02221**	**0.50079**	**0.51437**	**0.00031**

%RSD	0.22750	0.91761	0.35798	0.02503	1.31586	30.13347	0.11478	0.42137	40.80813

	Pb	Se
	calc	calc
#1	0.49906	2.06725
#2	0.50037	2.12134
Mean	**0.49972**	**2.09429**
%RSD	0.18583	1.82621

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:32
SampleId1 : 1309279-1 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 13:47:27
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE34

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00068	0.31171	0.00303	0.02121	0.04129	0.00052	-0.00398	74.42315	0.00317
#2	-0.00053	0.31121	-0.00251	0.01884	0.04103	0.00049	-0.00195	74.75907	0.00356
Mean	**-0.00060**	**0.31146**	**0.00026**	**0.02003**	**0.04116**	**0.00051**	**-0.00297**	**74.59111**	**0.00337**
%RSD	17.79511	0.11226	1481.10917	8.34671	0.44349	4.62199	48.33315	0.31844	8.23614

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00110	0.00066	0.00493	0.14815	3.15025	0.00643	7.40317	0.13951	0.01448
#2	0.00046	0.00065	0.00417	0.14815	3.14669	0.00639	7.40549	0.14017	0.01301
Mean	**0.00078**	**0.00066**	**0.00455**	**0.14815**	**3.14847**	**0.00641**	**7.40433**	**0.13984**	**0.01375**
%RSD	57.59558	0.29479	11.81643	0.00000	0.07998	0.51624	0.02207	0.33579	7.51361

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	8.19782	0.00674	0.05530	-0.00149	-0.00097	50.20334	0.00240	0.01075	0.00290
#2	8.19455	0.00790	0.06105	0.00204	0.00035	50.40303	0.00065	0.00309	0.00519
Mean	**8.19618**	**0.00732**	**0.05817**	**0.00027**	**-0.00031**	**50.30319**	**0.00152**	**0.00692**	**0.00404**
%RSD	0.02820	11.14711	6.98513	914.25070	304.70905	0.28071	81.34353	78.30701	40.04759

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	6.81938	0.01337	0.29100	0.00395	0.00926	-0.02866	0.00081	0.61634	0.00000
#2	6.83038	0.00493	0.29099	0.00358	0.00651	-0.02460	0.00070	0.62709	0.00019
Mean	**6.82488**	**0.00915**	**0.29099**	**0.00377**	**0.00788**	**-0.02663**	**0.00076**	**0.62171**	**0.00009**
%RSD	0.11400	65.28410	0.00297	7.00816	24.66239	10.77459	10.03652	1.22159	140.75147

	Pb	Se
	calc	calc
#1	-0.00114	0.00551
#2	0.00091	0.00449
Mean	**-0.00011**	**0.00500**
%RSD	1280.15383	14.48375

ted: 9/25/2013 15:20:43 User: STEVE WORKMAN
Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:32
SampleId1 : 1309279-2 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:48:58
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE35

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00116	7.77106	0.00989	0.01434	1.46776	0.00136	-0.00123	58.97712	0.00563
#2	-0.00139	7.84899	0.00119	0.01581	1.47933	0.00135	-0.00807	58.79618	0.00560
Mean	**-0.00128**	**7.81002**	**0.00554**	**0.01507**	**1.47355**	**0.00136**	**-0.00465**	**58.88665**	**0.00562**
%RSD	12.66726	0.70556	111.10747	6.86467	0.55546	0.81147	104.07651	0.21727	0.36355

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00753	0.02487	0.06855	24.31582	5.47025	0.01098	9.57374	0.50107	0.01394
#2	0.00700	0.02455	0.06829	24.34551	5.53050	0.01112	9.64730	0.50120	0.01448
Mean	**0.00727**	**0.02471**	**0.06842**	**24.33067**	**5.50037**	**0.01105**	**9.61052**	**0.50114**	**0.01421**
%RSD	5.14950	0.91416	0.25988	0.08627	0.77453	0.92127	0.54118	0.01884	2.64288

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	6.18188	0.01718	3.29276	0.15849	0.16080	24.57138	0.01476	0.00635	0.00036
#2	6.27137	0.01708	3.26404	0.15406	0.16187	24.62912	0.01153	0.00194	-0.00147
Mean	**6.22663**	**0.01713**	**3.27840**	**0.15627**	**0.16134**	**24.60025**	**0.01314**	**0.00415**	**-0.00056**
%RSD	1.01621	0.43309	0.61955	2.00562	0.47004	0.16599	17.38852	75.33105	231.53510

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	20.48217	0.01836	0.29750	1.36265	-0.00179	-0.00113	0.02106	1.58963	-0.00068
#2	20.64653	0.00990	0.29939	1.37050	-0.00286	-0.00657	0.02047	1.57335	-0.00085
Mean	**20.56435**	**0.01413**	**0.29845**	**1.36658**	**-0.00233**	**-0.00385**	**0.02077**	**1.58149**	**-0.00077**
%RSD	0.56518	42.30836	0.44608	0.40608	32.56847	99.74914	1.99288	0.72790	15.44144

	Pb	**Se**
	calc	calc
#1	0.16003	0.00235
#2	0.15927	-0.00034
Mean	**0.15965**	**0.00101**
%RSD	0.33691	188.62954

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:32
SampleId1 : 1309304-1 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:50:30
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE36

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00038	-0.00703	0.00092	-0.00389	0.04534	0.00033	-0.00501	5.16033	-0.00012
#2	-0.00038	-0.01199	-0.00752	-0.00401	0.04573	0.00027	-0.00069	5.16404	0.00006
Mean	**-0.00038**	**-0.00951**	**-0.00330**	**-0.00395**	**0.04553**	**0.00030**	**-0.00285**	**5.16218**	**-0.00003**
%RSD	0.57015	36.84736	181.05624	2.01528	0.60145	13.65095	107.07768	0.05072	383.56578

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00006	0.00379	0.00202	0.32520	0.56876	-0.00225	0.47142	0.12570	-0.00013
#2	-0.00037	0.00356	0.00202	0.32242	0.55922	-0.00225	0.47659	0.12610	-0.00146
Mean	**-0.00022**	**0.00368**	**0.00202**	**0.32381**	**0.56399**	**-0.00225**	**0.47401**	**0.12590**	**-0.00079**
%RSD	103.31525	4.50090	0.04665	0.60732	1.19655	0.00000	0.77046	0.22374	118.37246

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.24002	0.00176	0.02135	0.00015	0.00044	0.80811	-0.00043	0.00983	0.00354
#2	0.23991	0.00066	0.01560	-0.00166	-0.00023	0.82926	0.00304	-0.00202	0.00002
Mean	**0.23997**	**0.00121**	**0.01847**	**-0.00075**	**0.00011**	**0.81869**	**0.00131**	**0.00390**	**0.00178**
%RSD	0.03311	64.39835	21.99088	169.40692	438.39760	1.82672	188.33910	214.59012	139.57265

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.80283	0.00023	0.07435	0.00216	-0.00681	-0.02474	-0.00022	1.26226	0.00115
#2	0.80347	0.00399	0.07472	0.00195	0.00090	-0.02000	-0.00049	1.26689	0.00108
Mean	**0.80315**	**0.00211**	**0.07453**	**0.00205**	**-0.00296**	**-0.02237**	**-0.00035**	**1.26457**	**0.00112**
%RSD	0.05664	125.72104	0.34614	7.53158	184.19251	14.97205	54.31347	0.25920	4.34742

	Pb	Se
	calc	calc
#1	0.00034	0.00563
#2	-0.00070	-0.00066
Mean	**-0.00018**	**0.00249**
%RSD	412.70194	178.78419

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:33
SampleId1 : IP130924-4MB SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:54:00
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE37

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00068	-0.04068	-0.00119	-0.00828	-0.00151	0.00013	-0.00528	0.10755	-0.00025
#2	-0.00138	-0.04009	-0.00198	-0.00941	-0.00147	0.00013	-0.00604	0.10551	-0.00045
Mean	**-0.00103**	**-0.04038**	**-0.00158**	**-0.00885**	**-0.00149**	**0.00013**	**-0.00566**	**0.10653**	**-0.00035**
%RSD	48.11534	1.04069	35.36805	8.99760	2.04101	0.09602	9.50640	1.35282	40.17530

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo

	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00149	-0.00017	-0.00177	-0.01025	-0.00384	-0.00257	0.01359	-0.00033	-0.00265
#2	-0.00117	-0.00050	-0.00190	-0.01040	-0.01038	-0.00257	0.01417	-0.00033	-0.00079
Mean	**-0.00133**	**-0.00033**	**-0.00184**	**-0.01033**	**-0.00711**	**-0.00257**	**0.01388**	**-0.00033**	**-0.00172**
%RSD	16.83676	68.73073	4.89487	1.05418	65.01145	0.00000	2.92225	0.00000	76.30475

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.04401	-0.00223	-0.00477	-0.00150	0.00047	-0.02342	0.00006	0.00494	0.00165
#2	0.04412	-0.00139	0.00986	-0.00648	-0.00477	-0.01637	-0.00241	0.01191	-0.00216
Mean	**0.04406**	**-0.00181**	**0.00254**	**-0.00399**	**-0.00215**	**-0.01989**	**-0.00118**	**0.00843**	**-0.00025**
%RSD	0.17962	32.84886	406.37622	88.22019	172.32027	25.03618	149.06645	58.48571	1059.84625

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01823	0.00118	-0.00009	-0.00152	0.00450	-0.03192	-0.00068	0.00012	0.00088
#2	-0.01952	0.00305	-0.00008	-0.00148	-0.00073	-0.02921	-0.00084	0.00088	0.00101
Mean	**-0.01888**	**0.00212**	**-0.00008**	**-0.00150**	**0.00188**	**-0.03057**	**-0.00076**	**0.00050**	**0.00094**
%RSD	4.83756	62.73217	10.57459	1.82253	196.18013	6.25822	15.03416	107.42999	10.28936

	Pb	**Se**
	calc	calc
#1	-0.00019	0.00275
#2	-0.00534	0.00252
Mean	**-0.00276**	**0.00264**
%RSD	131.84802	6.02417

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:33
SampleId1 : IP130924-4LCS **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 13:55:32
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE38

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09645	1.85283	0.99729	1.00872	1.04688	0.04904	0.00025	38.56048	0.05235
#2	0.09546	1.84593	0.98974	1.00273	1.04132	0.04881	-0.00433	38.48115	0.05116
Mean	**0.09595**	**1.84938**	**0.99352**	**1.00572**	**1.04410**	**0.04892**	**-0.00204**	**38.52082**	**0.05175**
%RSD	0.73489	0.26365	0.53720	0.42124	0.37697	0.33730	158.50569	0.14561	1.62540

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49322	0.20024	0.25969	0.94375	38.38048	0.50607	38.77577	0.49706	0.99380
#2	0.49151	0.19882	0.25805	0.94110	38.17174	0.50299	38.61850	0.49653	0.98885
Mean	**0.49236**	**0.19953**	**0.25887**	**0.94243**	**38.27611**	**0.50453**	**38.69714**	**0.49680**	**0.99133**
%RSD	0.24516	0.50395	0.44801	0.19839	0.38562	0.43139	0.28737	0.07602	0.35296

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	40.25021	0.50365	0.00307	0.47219	0.47558	9.93732	0.48417	1.99665	1.94291
#2	39.99327	0.50075	0.00202	0.47052	0.48342	10.00847	0.48164	1.96141	2.01865
Mean	**40.12174**	**0.50220**	**0.00254**	**0.47135**	**0.47950**	**9.97289**	**0.48290**	**1.97903**	**1.98078**
%RSD	0.45284	0.40759	29.02861	0.25011	1.15585	0.50449	0.37099	1.25914	2.70373

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.09907	0.48933	0.50049	0.44284	2.17306	-0.02318	0.48712	0.57033	0.00187
#2	1.09077	0.48086	0.49795	0.44271	2.17642	-0.03873	0.48377	0.56726	0.00107
Mean	**1.09492**	**0.48510**	**0.49922**	**0.44278**	**2.17474**	**-0.03096**	**0.48544**	**0.56879**	**0.00147**
%RSD	0.53653	1.23448	0.36012	0.02061	0.10937	35.52554	0.48848	0.38128	38.63832

	Pb	**Se**
	calc	calc
#1	0.47445	1.96081
#2	0.47912	1.99959
Mean	**0.47679**	**1.98020**
%RSD	0.69300	1.38487

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:33
SampleId1 : 1309329-1 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:57:04
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE39

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00097	0.20984	0.00989	2.00507	0.03346	0.00040	-0.00292	304.96420	-0.00039
#2	-0.00073	0.20856	0.00040	2.01188	0.03359	0.00034	-0.00343	303.38546	-0.00029
Mean	**-0.00085**	**0.20920**	**0.00515**	**2.00848**	**0.03353**	**0.00037**	**-0.00318**	**304.17483**	**-0.00034**
%RSD	20.01386	0.43562	130.52880	0.23981	0.27224	10.66988	11.35050	0.36701	19.60945

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00060	0.00163	0.00500	0.11716	12.38078	0.28924	126.77288	0.00166	0.01886
#2	-0.00039	0.00137	0.00538	0.11716	12.45040	0.29034	126.82369	0.00166	0.02125
Mean	**-0.00050**	**0.00150**	**0.00519**	**0.11716**	**12.41559**	**0.28979**	**126.79828**	**0.00166**	**0.02005**
%RSD	30.27280	12.68885	5.21196	0.00000	0.39650	0.26792	0.02834	0.00000	8.42824

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	411.46077	0.00076	-0.02357	0.00225	0.00094	518.98869	0.00142	0.05781	0.07040
#2	404.21840	-0.00097	-0.03975	0.00173	-0.00170	519.52418	-0.00379	0.05455	0.06184
Mean	**407.83959**	**-0.00010**	**-0.03166**	**0.00199**	**-0.00038**	**519.25644**	**-0.00118**	**0.05618**	**0.06612**
%RSD	1.25567	1201.90991	36.15226	18.54080	493.50180	0.07292	311.41252	4.10434	9.14839

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	8.33890	-0.01009	10.51871	0.00098	0.00694	0.16411	0.00237	0.02451	-0.00023

#2	8.33545	0.00774	10.49700	0.00083	0.00446	0.15261	0.00199	0.02451	0.00003
Mean	**8.33718**	**-0.00117**	**10.50785**	**0.00090**	**0.00570**	**0.15836**	**0.00218**	**0.02451**	**-0.00010**
%RSD	0.02924	1076.17323	0.14606	12.10346	30.80285	5.13371	12.24219	0.00000	180.12892

	Pb	**Se**
	calc	calc
#1	0.00138	0.06620
#2	-0.00056	0.05941
Mean	**0.00041**	**0.06281**
%RSD	332.95038	7.64609

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:33
SampleId1 : 1309329-1D SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 13:58:37
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE40

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00026	0.22318	0.00699	2.03334	0.03514	0.00040	-0.00292	306.07735	-0.00060
#2	-0.00089	0.22164	-0.00673	2.02778	0.03523	0.00037	0.00013	307.10024	-0.00051
Mean	**-0.00058**	**0.22241**	**0.00013**	**2.03056**	**0.03518**	**0.00038**	**-0.00140**	**306.58880**	**-0.00056**
%RSD	76.82212	0.49045	7292.07227	0.19374	0.17295	5.30711	154.05643	0.23591	11.92087

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00004	0.00224	0.00500	0.15601	12.58910	0.29326	127.85466	0.00179	0.01819
#2	0.00004	0.00251	0.00513	0.15771	12.58687	0.29372	128.12444	0.00192	0.01886
Mean	**0.00004**	**0.00237**	**0.00506**	**0.15686**	**12.58799**	**0.29349**	**127.98955**	**0.00185**	**0.01853**
%RSD	1.60582	8.05676	1.72889	0.76477	0.01252	0.11102	0.14905	5.05429	2.53413

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	399.03928	0.00040	-0.03871	-0.00163	-0.00111	523.02350	-0.00107	0.06036	0.05131
#2	397.52896	-0.00175	-0.05019	-0.00128	0.00014	524.77542	-0.00356	0.04921	0.05940
Mean	**398.28412**	**-0.00068**	**-0.04445**	**-0.00146**	**-0.00048**	**523.89946**	**-0.00231**	**0.05478**	**0.05536**
%RSD	0.26814	224.01944	18.27175	17.04380	183.16134	0.23646	75.93310	14.39237	10.34134

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	8.40021	0.00024	10.59496	0.00040	0.00753	0.15732	0.00200	0.01231	-0.00017
#2	8.42048	0.00211	10.58242	0.00085	0.00644	0.16679	0.00195	0.01003	0.00013
Mean	**8.41034**	**0.00117**	**10.58869**	**0.00063**	**0.00699**	**0.16205**	**0.00197**	**0.01117**	**-0.00002**
%RSD	0.17043	112.95283	0.08368	50.91669	11.07270	4.13095	1.89963	14.47279	1052.21803

	Pb	**Se**
	calc	calc
#1	-0.00128	0.05432
#2	-0.00033	0.05601

Mean	**-0.00081**	**0.05516**	**ser: STEVE WORKMAN**
%RSD	83.32304	2.16200	

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:33
SampleId1 : CCV **SampleId2 :** **[CV]**
Analysis commenced : 9/25/2013 14:00:14
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD1

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19877	48.15594	0.48947	1.00782	1.02088	0.48623	0.52329	49.49798	0.51469
#2	0.19886	48.21409	0.49534	1.00646	1.02101	0.48586	0.51593	49.30815	0.51060
Mean	**0.19881**	**48.18501**	**0.49240**	**1.00714**	**1.02095**	**0.48605**	**0.51961**	**49.40307**	**0.51265**
%RSD	0.03183	0.08532	0.84248	0.09524	0.00903	0.05321	1.00250	0.27170	0.56362

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.50570	0.99451	1.02197	19.80670	50.86429	0.50511	48.30202	0.99637	1.02925
#2	0.50166	0.99089	1.02185	19.79492	50.94435	0.50579	48.25574	0.99610	1.02162
Mean	**0.50368**	**0.99270**	**1.02191**	**19.80081**	**50.90432**	**0.50545**	**48.27888**	**0.99623**	**1.02544**
%RSD	0.56674	0.25736	0.00847	0.04207	0.11121	0.09569	0.06779	0.01909	0.52580

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	48.70420	1.02316	4.82167	0.95177	0.97075	4.98339	0.49280	0.97149	0.97643
#2	48.99622	1.02105	4.88552	0.94806	0.98838	5.04003	0.48548	0.97265	1.00380
Mean	**48.85021**	**1.02211**	**4.85359**	**0.94992**	**0.97956**	**5.01171**	**0.48914**	**0.97207**	**0.99011**
%RSD	0.42270	0.14617	0.93018	0.27615	1.27223	0.79913	1.05711	0.08460	1.95483

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.69198	0.98120	0.50763	0.45166	0.53195	4.91034	0.48792	0.98532	0.97820
#2	4.69621	0.99441	0.50693	0.45180	0.51562	4.89545	0.48607	0.98301	0.97791
Mean	**4.69409**	**0.98781**	**0.50728**	**0.45173**	**0.52378**	**4.90290**	**0.48700**	**0.98416**	**0.97805**
%RSD	0.06371	0.94565	0.09761	0.02222	2.20496	0.21470	0.26795	0.16602	0.02106

	Pb	**Se**
	calc	calc
#1	0.96443	0.97478
#2	0.97495	0.99343
Mean	**0.96969**	**0.98411**
%RSD	0.76713	1.33966

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:34
SampleId1 : CCB **SampleId2 :** **[CB]**
Analysis commenced : 9/25/2013 14:01:52
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD2

Final concentrations **0:44** **User: STEVE WORKMAN**

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00031	-0.02809	0.00145	-0.00457	-0.00104	0.00025	0.00336	0.14790	0.00017
#2	0.00024	-0.03099	0.00092	-0.00569	-0.00117	0.00019	0.00056	0.14220	0.00071
Mean	**0.00027**	**-0.02954**	**0.00119**	**-0.00513**	**-0.00110**	**0.00022**	**0.00196**	**0.14505**	**0.00044**
%RSD	18.38907	6.94282	31.41162	15.51101	8.27191	17.90940	100.80884	2.78214	86.23605

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00022	0.00092	-0.00115	0.00161	0.03593	-0.00218	0.03998	0.00020	0.00053
#2	-0.00043	-0.00018	-0.00127	-0.00147	0.03130	-0.00220	0.03367	0.00020	0.00093
Mean	**-0.00033**	**0.00037**	**-0.00121**	**0.00007**	**0.03361**	**-0.00219**	**0.03682**	**0.00020**	**0.00073**
%RSD	45.62885	210.48864	7.26825	3308.74050	9.74194	0.69681	12.11623	0.00000	38.38510

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.13099	-0.00039	-0.01469	0.00033	-0.00365	0.01885	0.00182	0.01239	0.00196
#2	0.12180	-0.00175	0.00411	0.00242	-0.00179	0.01885	0.00058	0.00240	-0.00201
Mean	**0.12639**	**-0.00107**	**-0.00529**	**0.00138**	**-0.00272**	**0.01885**	**0.00120**	**0.00739**	**-0.00002**
%RSD	5.14271	89.93828	251.34517	107.24935	48.33037	0.00000	72.94060	95.59739	11527.70090

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01530	0.00493	0.00076	-0.00121	0.00425	-0.01096	0.00008	0.00164	0.00214
#2	-0.01952	0.00118	0.00064	-0.00135	0.00782	-0.01840	-0.00030	0.00164	0.00185
Mean	**-0.01741**	**0.00305**	**0.00070**	**-0.00128**	**0.00603**	**-0.01468**	**-0.00011**	**0.00164**	**0.00200**
%RSD	17.11619	86.91678	12.23100	7.82560	41.87001	35.81797	238.55374	0.00000	10.28539

	Pb	**Se**
	calc	calc
#1	-0.00232	0.00543
#2	-0.00039	-0.00054
Mean	**-0.00136**	**0.00245**
%RSD	100.89067	172.80375

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:34
SampleId1 : 1309329-1L 5X **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 14:03:26
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE41

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00071	0.00246	0.00356	0.41339	0.00670	0.00034	-0.00070	60.72022	-0.00026
#2	-0.00125	0.00573	-0.00013	0.41226	0.00679	0.00035	-0.00527	60.70623	-0.00026
Mean	**-0.00098**	**0.00410**	**0.00172**	**0.41282**	**0.00675**	**0.00035**	**-0.00298**	**60.71323**	**-0.00026**
%RSD	38.70622	56.32206	152.24664	0.19314	0.90164	1.10586	108.43082	0.01630	1.14865

ted: 9/25/2013 15:20:44 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00011	-0.00002	-0.00040	0.02085	1.78435	0.04720	27.03705	-0.00007	0.00186
#2	-0.00042	0.00012	-0.00027	0.02085	1.79200	0.04746	27.07004	-0.00020	0.00359
Mean	**-0.00016**	**0.00005**	**-0.00033**	**0.02085**	**1.78818**	**0.04733**	**27.05355**	**-0.00013**	**0.00273**
%RSD	236.44964	189.50261	27.34956	0.00000	0.30258	0.38725	0.08623	70.03911	44.78359

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	192.24672	-0.00202	-0.01051	-0.00325	-0.00055	111.98126	0.00083	0.01821	0.00715
#2	191.50168	-0.00170	-0.02774	-0.00151	0.00283	112.74649	-0.00289	0.00752	0.00761
Mean	**191.87420**	**-0.00186**	**-0.01913**	**-0.00238**	**0.00114**	**112.36387**	**-0.00103**	**0.01287**	**0.00738**
%RSD	0.27457	11.97075	63.70371	51.60827	210.44838	0.48156	256.40021	58.75393	4.38780

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	1.75716	-0.00164	2.33564	-0.00129	0.00979	0.01404	0.00024	0.00545	0.00139
#2	1.77166	-0.01102	2.33941	-0.00096	0.00593	0.00728	-0.00057	0.00698	0.00121
Mean	**1.76441**	**-0.00633**	**2.33753**	**-0.00113**	**0.00786**	**0.01066**	**-0.00016**	**0.00622**	**0.00130**
%RSD	0.58106	104.81987	0.11415	20.22759	34.69821	44.84567	353.28547	17.33546	9.47986

	Pb	Se
	calc	calc
#1	-0.00145	0.01084
#2	0.00138	0.00758
Mean	**-0.00003**	**0.00921**
%RSD	6009.23685	24.98819

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:34
SampleId1 : 1309329-1MS SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:04:58
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE42

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09569	2.29055	0.98004	3.00485	0.96542	0.04269	-0.00132	343.13570	0.04886
#2	0.09633	2.30491	0.97115	3.01831	0.96764	0.04262	-0.00462	341.76089	0.04862
Mean	**0.09601**	**2.29773**	**0.97559**	**3.01158**	**0.96653**	**0.04265**	**-0.00297**	**342.44830**	**0.04874**
%RSD	0.47003	0.44185	0.64451	0.31587	0.16212	0.10897	78.55061	0.28388	0.34034

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.43778	0.17410	0.25711	0.96070	76.70930	0.97525	163.18696	0.43221	0.93564
#2	0.43629	0.17365	0.25812	0.96008	77.24330	0.98357	163.58616	0.43087	0.93858
Mean	**0.43703**	**0.17388**	**0.25762**	**0.96039**	**76.97630**	**0.97941**	**163.38656**	**0.43154**	**0.93711**
%RSD	0.24033	0.18363	0.27898	0.04581	0.49054	0.60065	0.17276	0.21857	0.22193

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	381.28252	0.43456	0.00672	0.43556	0.43935	525.40365	0.45933	2.10299	2.06932
#2	378.92394	0.43171	-0.04236	0.43319	0.45130	525.09964	0.45458	2.09233	2.14420
Mean	**380.10323**	**0.43314**	**-0.01782**	**0.43437**	**0.44532**	**525.25165**	**0.45696**	**2.09766**	**2.10676**
%RSD	0.43877	0.46377	194.76892	0.38513	1.89818	0.04093	0.73500	0.35936	2.51312

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	9.83465	0.47904	10.93766	0.39211	2.07199	0.16482	0.43230	0.43012	0.00373
#2	9.88109	0.47527	10.93786	0.39308	2.06132	0.14927	0.43181	0.43165	0.00244
Mean	**9.85787**	**0.47716**	**10.93776**	**0.39260**	**2.06666**	**0.15704**	**0.43205**	**0.43088**	**0.00309**
%RSD	0.33318	0.55794	0.00126	0.17429	0.36485	7.00380	0.07970	0.25127	29.65341

	Pb	Se
	calc	calc
#1	0.43808	2.08053
#2	0.44527	2.12693
Mean	**0.44168**	**2.10373**
%RSD	1.15041	1.55935

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:34
SampleId1 : 1309329-1MSD SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:06:30
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE43

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.09788	2.26415	0.96684	2.99630	0.97337	0.04271	-0.00030	338.77489	0.04821
#2	0.09726	2.27694	0.96872	3.00291	0.97020	0.04282	0.00047	340.46010	0.04861
Mean	**0.09757**	**2.27054**	**0.96778**	**2.99961**	**0.97179**	**0.04277**	**0.00008**	**339.61750**	**0.04841**
%RSD	0.44814	0.39837	0.13780	0.15587	0.23081	0.17666	648.08826	0.35087	0.58542

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.43704	0.17429	0.25938	0.94841	77.76136	0.98604	162.62380	0.43194	0.94085
#2	0.43990	0.17443	0.26052	0.95246	77.67252	0.98590	163.03870	0.43314	0.95021
Mean	**0.43847**	**0.17436**	**0.25995**	**0.95044**	**77.71694**	**0.98597**	**162.83125**	**0.43254**	**0.94553**
%RSD	0.46064	0.05769	0.31010	0.30088	0.08083	0.01007	0.18018	0.19626	0.69988

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	370.86509	0.43855	-0.02200	0.43702	0.44160	520.25186	0.45485	2.10441	2.10776
#2	373.69452	0.43866	-0.03296	0.43742	0.44499	522.25434	0.46293	2.11127	2.16932
Mean	**372.27981**	**0.43861**	**-0.02748**	**0.43722**	**0.44330**	**521.25310**	**0.45889**	**2.10784**	**2.13854**
%RSD	0.53742	0.01696	28.21326	0.06521	0.54105	0.27165	1.24541	0.23018	2.03543

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr

	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	9.68366	0.48468	10.87998	0.39142	2.07281	0.16483	0.43413	0.42629	0.00074
#2	9.72847	0.48374	10.86172	0.39422	2.09945	0.15942	0.43430	0.43088	0.00070
Mean	**9.70606**	**0.48421**	**10.87085**	**0.39282**	**2.08613**	**0.16212**	**0.43421**	**0.42859**	**0.00072**
%RSD	0.32642	0.13789	0.11878	0.50401	0.90297	2.36119	0.02659	0.75784	4.17230

	Pb	**Se**
	calc	calc
#1	0.44008	2.10665
#2	0.44247	2.14999
Mean	**0.44127**	**2.12832**
%RSD	0.38405	1.44007

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:34
SampleId1 : 1309329-2 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:08:02
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE44

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00105	0.07345	0.00726	2.05912	0.03316	0.00067	0.00089	300.83229	-0.00025
#2	-0.00112	0.07333	-0.00462	2.06468	0.03312	0.00059	0.00241	302.80120	0.00004
Mean	**-0.00109**	**0.07339**	**0.00132**	**2.06190**	**0.03314**	**0.00063**	**0.00165**	**301.81675**	**-0.00011**
%RSD	4.54342	0.12103	635.92951	0.19082	0.09181	8.45182	65.34443	0.46128	187.94381

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00014	0.00131	0.00538	0.05366	12.95803	0.30405	128.32022	0.00126	0.02058
#2	-0.00039	0.00150	0.00513	0.05412	12.92375	0.30313	128.65260	0.00152	0.02032
Mean	**-0.00012**	**0.00140**	**0.00525**	**0.05389**	**12.94089**	**0.30359**	**128.48641**	**0.00139**	**0.02045**
%RSD	304.45457	9.63258	3.36957	0.60639	0.18733	0.21214	0.18292	13.48115	0.91823

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	370.45614	-0.00107	-0.02827	0.00026	-0.00357	520.78769	0.00268	0.06548	0.06397
#2	370.02648	-0.00223	-0.04967	-0.00119	-0.00184	522.80082	-0.00131	0.06245	0.06244
Mean	**370.24131**	**-0.00165**	**-0.03897**	**-0.00046**	**-0.00271**	**521.79425**	**0.00069**	**0.06397**	**0.06321**
%RSD	0.08206	49.47687	38.84376	220.97279	45.14232	0.27281	410.89663	3.34641	1.70866

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	8.08140	-0.00539	10.72032	-0.00072	0.01266	0.17160	0.00257	0.00088	0.00002
#2	8.10380	0.00681	10.71874	0.00037	0.01679	0.16213	0.00171	0.00545	-0.00029
Mean	**8.09260**	**0.00071**	**10.71953**	**-0.00017**	**0.01473**	**0.16687**	**0.00214**	**0.00317**	**-0.00013**
%RSD	0.19574	1220.98290	0.01042	448.75446	19.82011	4.01250	28.49765	102.03149	166.38630

	Pb	**Se**
	calc	calc

#1	-0.00230	0.06447
#2	-0.00163	0.06245
Mean	**-0.00196**	**0.06346**
%RSD	24.22434	2.25839

ser: STEVE WORKMAN

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:34
SampleId1 : 1309329-3 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 14:09:34
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE45

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00074	-0.05074	0.00277	2.04311	0.03135	0.00061	-0.00267	299.76992	0.00007
#2	-0.00096	-0.05876	-0.00435	2.03652	0.03135	0.00056	0.00291	299.12704	0.00000
Mean	**-0.00011**	**-0.05475**	**-0.00079**	**2.03981**	**0.03135**	**0.00059**	**0.00012**	**299.44848**	**0.00004**
%RSD	1060.68008	10.35379	636.98296	0.22829	0.00000	6.35065	3342.91916	0.15181	125.73890

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00057	0.00163	0.00513	-0.00840	12.49607	0.29498	126.76130	0.00073	0.01872
#2	-0.00039	-0.00002	0.00500	-0.00917	12.51640	0.29542	126.87001	0.00073	0.01846
Mean	**0.00009**	**0.00081**	**0.00506**	**-0.00879**	**12.50624**	**0.29520**	**126.81565**	**0.00073**	**0.01859**
%RSD	743.73437	145.11471	1.71298	6.19450	0.11496	0.10607	0.06062	0.00000	1.01003

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	375.07081	-0.00065	-0.03662	-0.00128	-0.00424	516.02082	-0.00007	0.05734	0.05449
#2	372.29832	-0.00055	-0.06116	-0.00187	-0.00357	516.58580	0.00068	0.06384	0.05877
Mean	**373.68456**	**-0.00060**	**-0.04889**	**-0.00158**	**-0.00390**	**516.30331**	**0.00030**	**0.06059**	**0.05663**
%RSD	0.52462	12.36036	35.49110	26.73585	12.15626	0.07738	174.68767	7.58537	5.34055

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	7.54914	-0.00070	10.59463	-0.00234	0.00489	0.16894	0.00239	0.00164	0.00012
#2	7.56840	-0.00351	10.57765	-0.00256	0.00433	0.15542	0.00174	0.00469	-0.00014
Mean	**7.55877**	**-0.00211**	**10.58614**	**-0.00245**	**0.00461**	**0.16218**	**0.00207**	**0.00317**	**-0.00001**
%RSD	0.18014	94.50328	0.11339	6.31362	8.55640	5.89730	22.19231	68.02134	2287.92615

	Pb	**Se**
	calc	calc
#1	-0.00325	0.05544
#2	-0.00300	0.06046
Mean	**-0.00313**	**0.05795**
%RSD	5.63481	6.12218

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:35
SampleId1 : 1309329-4 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 14:11:05

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE46

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00112	-0.06029	0.00857	2.03050	0.03122	0.00057	0.00393	297.47289	-0.00032
#2	-0.00065	-0.05987	0.00119	2.03505	0.03140	0.00055	-0.00115	298.71090	-0.00012
Mean	**-0.00089**	**-0.06008**	**0.00488**	**2.03277**	**0.03131**	**0.00056**	**0.00139**	**298.09189**	**-0.00022**
%RSD	37.65059	0.48553	107.01101	0.15798	0.38866	2.48419	258.18504	0.29367	63.33218

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00017	0.00025	0.00652	-0.00563	12.62643	0.29623	126.50595	-0.00007	0.01926
#2	-0.00038	0.00053	0.00690	-0.00609	12.62699	0.29655	126.89574	-0.00007	0.01833
Mean	**-0.00028**	**0.00039**	**0.00671**	**-0.00586**	**12.62671**	**0.29639**	**126.70085**	**-0.00007**	**0.01879**
%RSD	53.50819	51.38314	4.02942	5.57159	0.00312	0.07644	0.21754	0.00000	3.49765

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	370.53198	-0.00112	-0.03610	0.00130	-0.00384	514.63933	0.00267	0.05781	0.05021
#2	371.02799	-0.00050	-0.05698	0.00116	-0.00099	516.68670	0.00217	0.05896	0.04960
Mean	**370.77999**	**-0.00081**	**-0.04654**	**0.00123**	**-0.00241**	**515.66301**	**0.00242**	**0.05839**	**0.04991**
%RSD	0.09459	54.95101	31.73037	8.00950	83.62104	0.28075	14.71320	1.40024	0.86548

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	7.58304	0.00587	10.58011	-0.00274	0.01700	0.16623	0.00217	0.00164	-0.00030
#2	7.61135	-0.00258	10.57493	-0.00277	0.00874	0.15609	0.00239	0.00164	-0.00025
Mean	**7.59719**	**0.00165**	**10.57752**	**-0.00275**	**0.01287**	**0.16116**	**0.00228**	**0.00164**	**-0.00027**
%RSD	0.26345	362.42661	0.03458	0.66117	45.42587	4.45092	6.68189	0.00000	11.98974

	Pb	Se
	calc	calc
#1	-0.00213	0.05274
#2	-0.00027	0.05272
Mean	**-0.00120**	**0.05273**
%RSD	109.53392	0.03011

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:35
SampleId1 : 1309329-5 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:12:37
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE47

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00084	0.54736	0.00620	0.01873	0.12171	0.00040	0.00158	130.33354	-0.00024
#2	-0.00130	0.55291	-0.00989	0.01727	0.12214	0.00037	-0.00553	130.10004	-0.00052

Mean	**-0.00107**	**0.55014**	**-0.00185**	**0.01800**	**0.12192**	**0.00039**	**-0.00198**	**130.21679**	**-0.00038**
%RSD	30.47959	0.71220	616.61976	5.74859	0.24977	5.51112	254.35023	0.12679	50.63590

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00100	0.02802	-0.00064	0.01762	4.08110	0.03602	0.06464	0.00006	0.00346
#2	-0.00026	0.02743	-0.00089	0.01793	4.10360	0.03627	0.05317	-0.00007	-0.00093
Mean	**-0.00063**	**0.02773**	**-0.00076**	**0.01777**	**4.09235**	**0.03614**	**0.05891**	**0.00000**	**0.00126**
%RSD	83.02116	1.52228	23.28751	1.22532	0.38881	0.47891	13.77107	7375.32585	244.94279

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	46.30944	-0.00060	-0.03558	0.00433	-0.00174	5.30203	0.00200	0.00077	-0.00918
#2	46.97358	-0.00207	-0.01782	-0.00034	-0.00479	5.28786	-0.00251	0.00285	0.00227
Mean	**46.64151**	**-0.00133**	**-0.02670**	**0.00199**	**-0.00326**	**5.29494**	**-0.00026**	**0.00181**	**-0.00346**
%RSD	1.00686	77.82137	47.01908	165.76528	65.97831	0.18915	1246.47276	81.59049	234.23906

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.38623	-0.00352	0.24494	-0.00145	0.00535	-0.02450	0.00367	-0.00217	0.00056
#2	4.40322	-0.00352	0.24657	-0.00141	-0.00319	-0.02924	0.00383	-0.00217	0.00017
Mean	**4.39473**	**-0.00352**	**0.24575**	**-0.00143**	**0.00108**	**-0.02687**	**0.00375**	**-0.00217**	**0.00036**
%RSD	0.27350	0.00090	0.46727	1.90434	559.60180	12.45937	3.02903	0.00000	73.69318

	Pb	**Se**
	calc	calc
#1	0.00028	-0.00587
#2	-0.00331	0.00246
Mean	**-0.00151**	**-0.00170**
%RSD	167.58963	345.98326

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:35
SampleId1 : 1309329-6 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 14:14:10
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE48

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00044	0.08230	0.01148	0.09540	0.02727	0.00034	0.00514	12.77792	0.00010
#2	-0.00083	0.08337	0.01016	0.09473	0.02735	0.00031	-0.00324	12.73246	-0.00010
Mean	**-0.00063**	**0.08284**	**0.01082**	**0.09506**	**0.02731**	**0.00033**	**0.00095**	**12.75519**	**0.00000**
%RSD	42.84090	0.90851	8.62381	0.50254	0.22279	6.64806	626.98172	0.25205	3826.21772

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00093	0.00702	-0.00127	0.06414	4.82855	0.00944	0.05891	0.00152	0.01129
#2	-0.00093	0.00661	-0.00178	0.06476	4.85328	0.00946	0.05030	0.00152	0.00903
Mean	**-0.00093**	**0.00681**	**-0.00152**	**0.06445**	**4.84091**	**0.00945**	**0.05461**	**0.00152**	**0.01016**

%RSD	0.00092	4.27847	23.39934	0.67620	0.36124	0.18859	11.14198	0.00000	15.70864

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	43.68467	0.00019	-0.00424	0.00069	-0.00351	6.26564	0.00186	0.00472	0.00472
#2	43.83734	-0.00008	0.00359	-0.00355	0.00166	6.32944	-0.00139	0.00727	0.00212
Mean	**43.76101**	**0.00006**	**-0.00033**	**-0.00143**	**-0.00092**	**6.29754**	**0.00024**	**0.00600**	**0.00342**
%RSD	0.24670	334.01402	1688.70724	209.45570	396.48314	0.71638	969.64879	30.10824	53.65404

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	22.48918	0.00774	0.19343	0.00004	0.00096	-0.01777	0.01689	0.00850	-0.00284
#2	22.52026	-0.00070	0.19403	0.00009	0.00371	-0.02251	0.01636	0.00850	-0.00295
Mean	**22.50472**	**0.00352**	**0.19373**	**0.00007**	**0.00234**	**-0.02014**	**0.01662**	**0.00850**	**-0.00289**
%RSD	0.09767	169.59823	0.21812	55.38976	83.23719	16.62173	2.29130	0.00000	2.65447

	Pb	**Se**
	calc	calc
#1	-0.00211	0.00472
#2	-0.00007	0.00384
Mean	**-0.00109**	**0.00428**
%RSD	131.82879	14.56511

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:35
SampleId1 : 1309313-9 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:15:42
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE49

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00023	-0.06495	0.00092	0.14360	0.09212	0.00035	0.00083	80.11060	0.00015
#2	-0.00062	-0.06216	-0.00409	0.14552	0.09195	0.00035	0.00159	80.11431	-0.00032
Mean	**-0.00043**	**-0.06356**	**-0.00158**	**0.14456**	**0.09204**	**0.00035**	**0.00121**	**80.11246**	**-0.00009**
%RSD	64.26216	3.09985	224.00729	0.93656	0.13230	0.21628	44.31367	0.00328	373.65292

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00023	-0.00014	0.00366	0.01500	6.84492	0.02036	34.45878	0.03082	0.00505
#2	-0.00051	-0.00033	0.00315	0.01454	6.84437	0.02035	34.46650	0.03069	0.00399
Mean	**-0.00014**	**-0.00024**	**0.00340**	**0.01477**	**6.84464**	**0.02035**	**34.46264**	**0.03076**	**0.00452**
%RSD	367.60498	54.89764	10.50329	2.21156	0.00570	0.03752	0.01583	0.30487	16.62516

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	52.64414	0.00270	0.23719	0.00119	-0.00002	68.31562	-0.00164	0.00333	0.00303
#2	52.66639	0.00124	0.23823	-0.00362	0.00277	68.63142	0.00135	0.00682	0.00166
Mean	**52.65527**	**0.00197**	**0.23771**	**-0.00121**	**0.00137**	**68.47352**	**-0.00014**	**0.00508**	**0.00234**
%RSD	0.02987	52.71538	0.31111	280.32053	143.17545	0.32612	1454.52033	48.53962	41.45113

ted: 9/25/2013 15:20:44 User: STEVE WORKMAN

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	6.12925	0.00775	0.98191	-0.00219	0.00375	-0.00353	0.00315	0.00469	0.00040
#2	6.13761	-0.00445	0.97878	-0.00216	0.00210	-0.00489	0.00266	0.00317	0.00020
Mean	**6.13343**	**0.00165**	**0.98034**	**-0.00217**	**0.00292**	**-0.00421**	**0.00290**	**0.00393**	**0.00030**
%RSD	0.09646	523.70526	0.22571	0.83733	39.96923	22.71034	11.80227	27.41736	48.95968

	Pb	Se
	calc	calc
#1	0.00039	0.00313
#2	0.00064	0.00338
Mean	**0.00051**	**0.00325**
%RSD	35.24795	5.29248

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:35
SampleId1 : 1309313-10 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:17:15
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE50

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00094	-0.06476	0.00620	0.18066	0.15509	0.00034	-0.00399	107.87094	-0.00004
#2	-0.00070	-0.06438	-0.00092	0.17751	0.15487	0.00032	-0.00019	107.08607	0.00013
Mean	**-0.00082**	**-0.06457**	**0.00264**	**0.17908**	**0.15498**	**0.00033**	**-0.00209**	**107.47850**	**0.00004**
%RSD	20.91344	0.42192	190.87118	1.24538	0.09828	4.65534	128.85436	0.51637	262.51781

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00064	0.00072	0.00239	0.02347	9.46551	0.02127	42.47112	0.11428	0.00531
#2	-0.00053	-0.00019	0.00252	0.02332	9.44501	0.02124	42.32526	0.11415	0.00465
Mean	**-0.00058**	**0.00027**	**0.00245**	**0.02340**	**9.45526**	**0.02125**	**42.39819**	**0.11421**	**0.00498**
%RSD	12.73731	242.81140	3.75028	0.46548	0.15331	0.07186	0.24326	0.08220	9.42162

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	64.46071	0.00181	0.20581	0.00257	0.00011	91.36551	-0.00164	0.01310	-0.00002
#2	64.12847	0.00176	0.17967	-0.00252	-0.00068	91.10472	-0.00114	0.00914	0.00624
Mean	**64.29459**	**0.00179**	**0.19274**	**0.00002**	**-0.00029**	**91.23512**	**-0.00139**	**0.01112**	**0.00311**
%RSD	0.36540	2.07617	9.58997	15856.77323	193.40712	0.20213	25.31447	25.16335	142.38923

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	8.22636	0.00305	1.20407	-0.00217	0.00113	0.00931	0.00304	0.00622	-0.00026
#2	8.18962	-0.00070	1.20348	-0.00199	-0.00246	-0.00354	0.00223	0.00622	-0.00015
Mean	**8.20799**	**0.00118**	**1.20377**	**-0.00208**	**-0.00067**	**0.00288**	**0.00264**	**0.00622**	**-0.00021**
%RSD	0.31649	225.37514	0.03446	6.11478	380.68030	315.02497	21.67483	0.00000	37.69812

	Pb	Seser: STEVE WORKMAN
	calc	calc
#1	0.00092	0.00435
#2	-0.00129	0.00721
Mean	**-0.00018**	**0.00578**
%RSD	851.85648	34.98447

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:36
SampleId1 : CCV **SampleId2 :** **[CV]**
Analysis commenced : 9/25/2013 14:19:17
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19807	47.97780	0.50520	1.01347	1.02297	0.47953	0.52330	48.72350	0.51111
#2	0.19808	48.00550	0.49827	1.00047	1.02597	0.48191	0.52178	48.84535	0.51076
Mean	**0.19807**	**47.99165**	**0.50174**	**1.00697**	**1.02447**	**0.48072**	**0.52254**	**48.78443**	**0.51093**
%RSD	0.00026	0.04082	0.97734	0.91289	0.20706	0.35046	0.20568	0.17662	0.04734

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49956	0.98042	1.02665	19.55787	51.11993	0.50773	48.13313	0.98453	1.00798
#2	0.49924	0.98359	1.02817	19.64977	51.11014	0.50786	48.18602	0.98695	1.01373
Mean	**0.49940**	**0.98201**	**1.02741**	**19.60382**	**51.11503**	**0.50780**	**48.15957**	**0.98574**	**1.01085**
%RSD	0.04516	0.22822	0.10482	0.33148	0.01354	0.01755	0.07765	0.17363	0.40233

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	50.49981	1.01852	4.74229	0.94139	0.96250	5.00463	0.49524	0.97408	0.96516
#2	50.39266	1.02179	4.82328	0.94222	0.98915	4.99755	0.48948	0.97782	0.98378
Mean	**50.44624**	**1.02015**	**4.78278**	**0.94181**	**0.97583**	**5.00109**	**0.49236**	**0.97595**	**0.97447**
%RSD	0.15019	0.22699	1.19732	0.06193	1.93156	0.10010	0.82633	0.27098	1.35110

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.66816	0.94913	0.50789	0.44433	0.51621	4.92407	0.48303	0.96838	0.97386
#2	4.66377	0.99065	0.50858	0.44644	0.51298	4.90775	0.48295	0.97069	0.97660
Mean	**4.66596**	**0.96989**	**0.50823**	**0.44538**	**0.51459**	**4.91591**	**0.48299**	**0.96953**	**0.97523**
%RSD	0.06657	3.02653	0.09572	0.33605	0.44367	0.23475	0.01189	0.16850	0.19830

	Pb	Se
	calc	calc
#1	0.95547	0.96813
#2	0.97353	0.98180
Mean	**0.96450**	**0.97497**
%RSD	1.32362	0.99105

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:36

SampleId1 : CCB **SampleId2 :** **[CB]**
Analysis commenced : 9/25/2013 14:24:33
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00061	-0.03277	0.00303	-0.00637	-0.00112	0.00030	-0.00020	0.13608	-0.00011
#2	-0.00045	-0.02942	-0.00198	-0.00648	-0.00121	0.00026	-0.00553	0.13812	0.00011
Mean	**-0.00053**	**-0.03109**	**0.00053**	**-0.00643**	**-0.00117**	**0.00028**	**-0.00287**	**0.13710**	**0.00000**
%RSD	20.78291	7.62817	670.95877	1.23863	5.20987	10.30660	131.44608	1.05122	38762.26827

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00064	0.00065	-0.00178	-0.00455	0.02176	-0.00233	0.03080	0.00006	-0.00159
#2	-0.00107	-0.00004	-0.00165	-0.00548	0.01850	-0.00233	0.03137	-0.00007	-0.00186
Mean	**-0.00086**	**0.00031**	**-0.00171**	**-0.00502**	**0.02013**	**-0.00233**	**0.03109**	**0.00000**	**-0.00172**
%RSD	34.95851	158.57399	5.22111	13.02481	11.48292	0.21863	1.30470	7375.32585	10.90066

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10403	-0.00196	-0.00790	0.00023	0.00106	0.01885	0.00305	0.01215	-0.00094
#2	0.10476	-0.00039	-0.01051	-0.00387	0.00186	0.00476	0.00106	0.00216	0.00227
Mean	**0.10440**	**-0.00118**	**-0.00921**	**-0.00182**	**0.00146**	**0.01180**	**0.00206**	**0.00715**	**0.00066**
%RSD	0.49334	94.52645	20.05564	159.17080	38.53483	84.39632	68.37737	98.74626	342.39786

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01904	0.00587	0.00056	-0.00157	0.00423	-0.02584	-0.00019	0.00088	0.00154
#2	-0.02018	0.01338	0.00058	-0.00159	0.01139	-0.02584	-0.00003	0.00317	0.00134
Mean	**-0.01961**	**0.00962**	**0.00057**	**-0.00158**	**0.00781**	**-0.02584**	**-0.00011**	**0.00203**	**0.00144**
%RSD	4.09978	55.16638	3.02099	0.62058	64.78810	0.00193	99.68969	79.80340	10.08135

	Pb	Se
	calc	calc
#1	0.00078	0.00342
#2	-0.00005	0.00223
Mean	**0.00037**	**0.00282**
%RSD	160.87815	29.74893

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:36
SampleId1 : 1309313-11 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 14:26:11
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE51

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	-0.00079	-0.06023	0.00409	0.14540	0.13368	0.00046	0.00261	97.59067	0.00024
#2	-0.00017	-0.06860	-0.00198	0.14540	0.13316	0.00038	-0.01186	97.81920	-0.00051
Mean	**-0.00048**	**-0.06441**	**0.00106**	**0.14540**	**0.13342**	**0.00042**	**-0.00463**	**97.70494**	**-0.00014**
%RSD	91.27178	9.19650	406.33743	0.00000	0.27393	14.13604	221.12717	0.16538	392.58103

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00045	0.00012	0.00137	0.02455	12.49969	0.01937	41.15730	0.00192	0.00571
#2	-0.00067	-0.00025	0.00112	0.02517	12.42338	0.01929	41.10356	0.00192	0.00292
Mean	**-0.00056**	**-0.00006**	**0.00125**	**0.02486**	**12.46154**	**0.01933**	**41.13043**	**0.00192**	**0.00432**
%RSD	26.77486	409.92924	14.31696	1.75237	0.43300	0.30288	0.09238	0.00000	45.65351

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	49.97570	0.00270	0.35803	-0.00245	-0.00063	88.04090	0.00334	0.00938	-0.00078
#2	49.67912	0.00124	0.34442	-0.00443	-0.00003	88.19390	0.00159	0.01380	-0.00155
Mean	**49.82741**	**0.00197**	**0.35123**	**-0.00344**	**-0.00033**	**88.11740**	**0.00247**	**0.01159**	**-0.00117**
%RSD	0.42089	52.71538	2.73909	40.68891	128.29713	0.12278	50.35709	26.92796	46.28012

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	6.19178	0.00212	1.13794	-0.00214	-0.00067	0.01337	0.00261	0.00088	0.00221
#2	6.19029	-0.00258	1.13529	-0.00214	-0.01003	0.01269	0.00170	-0.00217	0.00181
Mean	**6.19103**	**-0.00023**	**1.13662**	**-0.00214**	**-0.00535**	**0.01303**	**0.00215**	**-0.00064**	**0.00201**
%RSD	0.01700	1443.88763	0.16513	0.00000	123.59847	3.67335	30.05413	336.00437	13.85056

	Pb	**Se**
	calc	calc
#1	-0.00123	0.00260
#2	-0.00150	0.00356
Mean	**-0.00137**	**0.00308**
%RSD	13.61592	22.04300

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:36
SampleId1 : 1309313-12 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:27:43
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE52

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00029	-0.04996	0.00514	0.14202	0.14341	0.00048	-0.00220	125.16011	-0.00036
#2	-0.00043	-0.04734	-0.00198	0.14180	0.14367	0.00051	-0.00373	125.05645	-0.00010
Mean	**-0.00036**	**-0.04865**	**0.00158**	**0.14191**	**0.14354**	**0.00050**	**-0.00296**	**125.10828**	**-0.00023**
%RSD	28.87534	3.80912	318.06346	0.11224	0.12732	3.27450	36.40986	0.05859	79.14283

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00009	-0.00019	0.00161	0.12440	14.31624	0.01668	43.99847	0.03613	0.01315

#2	-0.00023	-0.00042	0.00162	0.12425	14.34977	0.01669	44.04337	0.03613	0.01487
Mean	**-0.00007**	**-0.00030**	**0.00161**	**0.12433**	**14.33301**	**0.01669**	**44.02092**	**0.03613**	**0.01401**
%RSD	317.91723	51.80227	0.14982	0.08769	0.16541	0.04576	0.07213	0.00000	8.71143

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	46.57893	0.00396	0.21523	-0.00073	-0.00193	73.46977	0.00015	0.00756	-0.00031
#2	46.56951	0.00276	0.19483	-0.00337	0.00139	73.97591	0.00041	-0.00267	0.00060
Mean	**46.57422**	**0.00336**	**0.20503**	**-0.00205**	**-0.00027**	**73.72284**	**0.00028**	**0.00244**	**0.00015**
%RSD	0.01431	25.38873	7.03243	91.15302	877.50957	0.48546	65.06027	296.14883	445.29503

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.95498	0.00118	1.17870	-0.00218	-0.00187	0.06739	0.00269	0.06491	0.00140
#2	5.96090	-0.00258	1.18009	-0.00193	-0.00077	0.05522	0.00215	0.06186	0.00131
Mean	**5.95794**	**-0.00070**	**1.17939**	**-0.00206**	**-0.00132**	**0.06131**	**0.00242**	**0.06338**	**0.00135**
%RSD	0.07023	379.69806	0.08301	8.57428	58.60902	14.04059	15.73844	3.40246	4.54097

	Pb	**Se**
	calc	calc
#1	-0.00153	0.00231
#2	-0.00019	-0.00049
Mean	**-0.00086**	**0.00091**
%RSD	109.59348	217.10523

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:36
SampleId1 : 1309315-4 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 14:29:15
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE53

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00131	-0.04782	-0.00778	0.05262	0.04547	0.00048	-0.00349	39.60486	0.00009
#2	-0.00077	-0.04894	0.00066	0.05453	0.04534	0.00049	-0.00070	39.20723	0.00006
Mean	**-0.00104**	**-0.04838**	**-0.00356**	**0.05357**	**0.04540**	**0.00049**	**-0.00209**	**39.40604**	**0.00007**
%RSD	37.07223	1.64896	167.63938	2.52613	0.20105	1.79008	94.25067	0.71352	27.56946

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00174	-0.00023	0.00252	0.02286	4.36052	0.00732	12.08919	0.00152	0.00000
#2	-0.00153	-0.00050	0.00214	0.02255	4.36492	0.00730	12.02764	0.00126	0.00253
Mean	**-0.00164**	**-0.00036**	**0.00233**	**0.02270**	**4.36272**	**0.00731**	**12.05842**	**0.00139**	**0.00126**
%RSD	9.14848	53.70600	11.50184	0.95938	0.07120	0.13932	0.36087	13.48115	141.02900

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	16.06692	0.00040	0.02082	-0.00129	-0.00140	28.22296	-0.00216	-0.00248	0.00441
#2	16.08540	0.00108	0.01978	-0.00623	0.00450	28.09259	-0.00040	0.00216	0.00059

Mean	**16.07616**	**0.00074**	**0.02030**	**-0.00376**	**0.00155**	**28.15777**	**-0.00128**	**-0.00016**	**0.00250**
%RSD	0.08129	65.38683	3.63836	92.95706	268.79317	0.32741	96.86667	2042.50546	108.03756

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	6.32178	0.00587	0.30804	-0.00177	-0.00125	-0.01977	0.00196	0.00317	0.00066
#2	6.29273	-0.00633	0.30740	-0.00193	-0.00703	-0.01977	0.00207	-0.00064	0.00063
Mean	**6.30726**	**-0.00023**	**0.30772**	**-0.00185**	**-0.00414**	**-0.01977**	**0.00202**	**0.00126**	**0.00064**
%RSD	0.32567	3749.96099	0.14893	6.35874	98.84847	0.00084	3.75546	213.21285	3.17097

	Pb	**Se**
	calc	calc
#1	-0.00136	0.00211
#2	0.00093	0.00111
Mean	**-0.00022**	**0.00161**
%RSD	744.48707	43.79612

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:37
SampleId1 : 1309315-5 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:30:47
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE54

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00041	-0.05053	0.00119	0.04969	0.11770	0.00053	0.00261	56.59695	0.00032
#2	-0.00010	-0.05164	-0.00488	0.05115	0.11731	0.00049	-0.00146	56.74408	0.00039
Mean	**-0.00025**	**-0.05108**	**-0.00185**	**0.05042**	**0.11751**	**0.00051**	**0.00057**	**56.67052**	**0.00036**
%RSD	85.96462	1.52476	232.41325	2.05249	0.23323	6.06476	499.57529	0.18358	14.11873

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00048	-0.00053	-0.00040	0.02147	11.21967	0.00603	10.95072	0.04302	0.00970
#2	-0.00079	-0.00007	-0.00078	0.02162	11.12575	0.00601	10.92694	0.04329	0.01009
Mean	**-0.00064**	**-0.00030**	**-0.00059**	**0.02155**	**11.17271**	**0.00602**	**10.93883**	**0.04315**	**0.00989**
%RSD	35.37379	107.40282	45.57884	0.50540	0.59441	0.29610	0.15370	0.43463	2.84650

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	9.36884	0.00249	0.03023	-0.00333	-0.00043	1.30878	0.00387	-0.00362	-0.00216
#2	9.27667	0.00087	0.01508	-0.00305	-0.00004	1.30172	0.00362	0.00893	-0.00033
Mean	**9.32275**	**0.00168**	**0.02265**	**-0.00319**	**-0.00024**	**1.30525**	**0.00374**	**0.00265**	**-0.00124**
%RSD	0.69911	68.37628	47.28248	6.26741	119.21202	0.38211	4.68833	334.24697	104.20477

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.39151	-0.00445	0.39129	-0.00229	-0.00006	0.02554	0.00094	0.00317	0.00037
#2	5.38725	0.00306	0.38975	-0.00228	-0.00694	0.02689	0.00105	0.00088	0.00076
Mean	**5.38938**	**-0.00070**	**0.39052**	**-0.00229**	**-0.00350**	**0.02622**	**0.00100**	**0.00203**	**0.00057**

%RSD	0.05590	759.65699	0.27952	0.42870	139.01894	3.64770	7.69609	79.80340	49.35481

	Pb	**Se**
	calc	calc
#1	-0.00140	-0.00265
#2	-0.00104	0.00275
Mean	**-0.00122**	**0.00005**
%RSD	20.78793	7003.60454

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:37
SampleId1 : 1309327-1 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:32:19
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE55

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00100	6.07328	-0.00699	0.08290	0.09914	0.00093	-0.00671	41.41601	0.00038
#2	-0.00077	6.11114	0.00462	0.08471	0.09927	0.00091	-0.00012	41.26451	-0.00041
Mean	**-0.00088**	**6.09221**	**-0.00119**	**0.08380**	**0.09921**	**0.00092**	**-0.00342**	**41.34026**	**-0.00002**
%RSD	18.27206	0.43944	691.92715	1.52009	0.09207	1.16110	136.53591	0.25913	3206.10928

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00155	0.00651	0.01049	7.02082	5.97692	0.01388	22.46899	0.21286	0.00160
#2	0.00145	0.00702	0.01024	7.00876	5.99152	0.01395	22.53703	0.21233	0.00279
Mean	**0.00150**	**0.00676**	**0.01036**	**7.01479**	**5.98422**	**0.01392**	**22.50301**	**0.21260**	**0.00219**
%RSD	4.72820	5.26878	1.73633	0.12161	0.17244	0.36579	0.21380	0.17689	38.50807

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	35.28059	0.00386	0.26700	0.00472	0.01019	42.27522	0.00231	0.01238	-0.00036
#2	35.42653	0.00517	0.27014	0.00443	0.01032	42.34129	-0.00192	0.00379	0.00559
Mean	**35.35356**	**0.00451**	**0.26857**	**0.00458**	**0.01026**	**42.30825**	**0.00019**	**0.00809**	**0.00261**
%RSD	0.29189	20.54177	0.82626	4.41952	0.90824	0.11043	1554.06563	75.12735	161.05641

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	17.08330	0.00754	0.55505	0.17806	0.00271	-0.02038	0.01342	0.02374	0.00018
#2	17.09435	0.00003	0.55564	0.17557	0.00050	-0.01496	0.01321	0.02374	0.00051
Mean	**17.08883**	**0.00379**	**0.55535**	**0.17682**	**0.00160**	**-0.01767**	**0.01331**	**0.02374**	**0.00034**
%RSD	0.04574	140.19911	0.07516	0.99927	97.58468	21.68292	1.15530	0.00000	66.51020

	Pb	**Se**
	calc	calc
#1	0.00837	0.00388
#2	0.00836	0.00499
Mean	**0.00837**	**0.00444**
%RSD	0.06213	17.67984

ted: 9/25/2013 15:20:45 User: STEVE WORKMAN
Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:37
SampleId1 : 1309327-2 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:33:51
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE56

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00070	6.01157	0.01016	0.08403	0.10022	0.00089	0.00496	41.55484	-0.00001
#2	-0.00031	6.07518	0.00198	0.08583	0.10043	0.00084	0.00014	41.58856	0.00002
Mean	**-0.00051**	**6.04338**	**0.00607**	**0.08493**	**0.10033**	**0.00086**	**0.00255**	**41.57170**	**0.00001**
%RSD	55.19177	0.74428	95.30047	1.49994	0.15173	4.80868	133.66676	0.05737	280.71589

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00188	0.00733	0.01036	7.15941	5.95049	0.01384	22.51885	0.21446	0.00226
#2	0.00198	0.00715	0.01099	7.15875	5.98133	0.01395	22.57164	0.21499	0.00093
Mean	**0.00193**	**0.00724**	**0.01068**	**7.15908**	**5.96591**	**0.01389**	**22.54524**	**0.21473**	**0.00160**
%RSD	3.87765	1.75451	4.20269	0.00654	0.36550	0.58633	0.16558	0.17514	58.79635

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	35.09261	0.00743	0.29211	0.01175	0.00658	42.58358	0.00181	0.00450	0.00286
#2	35.43477	0.00758	0.29734	0.00817	0.00838	42.59827	0.00130	0.00264	0.00546
Mean	**35.26369**	**0.00750**	**0.29472**	**0.00996**	**0.00748**	**42.59092**	**0.00156**	**0.00357**	**0.00416**
%RSD	0.68610	1.48287	1.25508	25.38770	17.00478	0.02438	22.92929	36.93312	44.10568

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	16.80717	0.00285	0.55476	0.17516	0.00645	0.00183	0.01335	0.02527	0.00068
#2	16.94254	0.00191	0.55557	0.17532	-0.00182	-0.00561	0.01383	0.02603	0.00040
Mean	**16.87486**	**0.00238**	**0.55516**	**0.17524**	**0.00231**	**-0.00189**	**0.01359**	**0.02565**	**0.00054**
%RSD	0.56722	27.89632	0.10338	0.06162	252.45177	278.13269	2.51791	2.10114	37.08497

	Pb	**Se**
	calc	calc
#1	0.00830	0.00341
#2	0.00831	0.00452
Mean	**0.00831**	**0.00396**
%RSD	0.07387	19.82159

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:37
SampleId1 : 1309327-6 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:35:23
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE57

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00039	0.74069	0.00040	0.20961	0.18814	0.00063	0.00622	96.65021	0.00027
#2	-0.00139	0.73775	-0.00224	0.20939	0.18835	0.00066	0.00063	95.88855	0.00008
Mean	**-0.00050**	**0.73922**	**-0.00092**	**0.20950**	**0.18825**	**0.00065**	**0.00342**	**96.26938**	**0.00017**
%RSD	251.34292	0.28095	202.15451	0.07605	0.08094	3.22874	115.43820	0.55945	77.20697

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00189	0.00069	0.00745	0.75186	10.05564	0.01912	23.37030	0.01332	0.01049
#2	0.00168	0.00037	0.00682	0.74580	10.08310	0.01913	23.32040	0.01319	0.01222
Mean	**0.00179**	**0.00053**	**0.00714**	**0.74883**	**10.06937**	**0.01913**	**23.34535**	**0.01325**	**0.01136**
%RSD	8.39911	42.07829	6.23709	0.57161	0.19281	0.02662	0.15114	0.70724	10.74846

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	129.82703	0.00433	0.12375	0.00308	-0.00198	80.69793	0.00213	0.00937	0.00116
#2	129.00678	0.00207	0.11904	-0.00168	0.00094	80.77394	-0.00259	0.01285	0.00680
Mean	**129.41690**	**0.00320**	**0.12139**	**0.00070**	**-0.00052**	**80.73593**	**-0.00023**	**0.01111**	**0.00398**
%RSD	0.44817	49.79796	2.73965	481.11826	396.85268	0.06657	1428.49619	22.14231	100.36849

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	7.66467	0.00866	0.82826	0.02403	-0.00074	-0.00883	0.00370	0.00926	0.00151
#2	7.65826	-0.00542	0.82787	0.02455	-0.00213	-0.01897	0.00252	0.01155	0.00103
Mean	**7.66146**	**0.00162**	**0.82806**	**0.02429**	**-0.00144**	**-0.01390**	**0.00311**	**0.01041**	**0.00127**
%RSD	0.05915	615.79368	0.03382	1.49421	68.15068	51.57796	26.95284	15.53236	26.73385

	Pb	Se
	calc	calc
#1	-0.00030	0.00389
#2	0.00007	0.00882
Mean	**-0.00011**	**0.00635**
%RSD	224.89498	54.82159

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:37
SampleId1 : 1309327-7 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:36:55
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE58

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00039	2.37446	0.00251	0.20634	0.12756	0.00069	0.00099	86.85809	-0.00001
#2	-0.00031	2.40246	0.00277	0.20387	0.12739	0.00074	-0.00079	86.29180	-0.00016
Mean	**-0.00035**	**2.38846**	**0.00264**	**0.20510**	**0.12748**	**0.00071**	**0.00010**	**86.57494**	**-0.00009**
%RSD	16.33839	0.82908	7.06978	0.85446	0.09556	5.13917	1241.87873	0.46252	120.21657

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo

	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00253	0.00230	0.00859	2.43878	11.61887	0.01855	20.15186	0.09782	0.00996
#2	0.00169	0.00272	0.00897	2.42915	11.67949	0.01868	20.16590	0.09716	0.00863
Mean	**0.00211**	**0.00251**	**0.00878**	**2.43396**	**11.64918**	**0.01862**	**20.15888**	**0.09749**	**0.00930**
%RSD	28.26271	11.76252	3.06486	0.27996	0.36800	0.51962	0.04927	0.48138	10.09806

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	108.45342	0.00307	0.22882	0.00482	0.00407	67.84208	0.00037	0.00240	-0.00119
#2	108.48021	0.00318	0.21366	0.00496	0.00261	67.76694	0.00285	0.00797	0.00782
Mean	**108.46681**	**0.00312**	**0.22124**	**0.00489**	**0.00334**	**67.80451**	**0.00161**	**0.00519**	**0.00331**
%RSD	0.01746	2.37452	4.84658	1.99185	30.75962	0.07837	108.58796	75.96115	192.30167

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	11.75608	0.00577	0.71522	0.08361	-0.00136	-0.00809	0.00638	0.16867	0.00157
#2	11.79919	-0.00361	0.71291	0.08183	-0.00495	-0.01214	0.00611	0.16638	0.00156
Mean	**11.77764**	**0.00108**	**0.71407**	**0.08272**	**-0.00316**	**-0.01012**	**0.00624**	**0.16752**	**0.00156**
%RSD	0.25882	614.73855	0.22857	1.51827	80.46211	28.31128	3.06789	0.96664	0.35974

	Pb	**Se**
	calc	calc
#1	0.00432	0.00000
#2	0.00339	0.00787
Mean	**0.00385**	**0.00394**
%RSD	16.93280	141.24678

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:37
SampleId1 : 1309327-10 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:38:27
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE59

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00069	-0.04994	-0.00277	0.08076	0.04620	0.00045	-0.00577	40.45336	0.00035
#2	-0.00045	-0.04838	0.00013	0.08178	0.04603	0.00045	0.00159	40.36068	-0.00029
Mean	**-0.00057**	**-0.04916**	**-0.00132**	**0.08127**	**0.04611**	**0.00045**	**-0.00209**	**40.40702**	**0.00003**
%RSD	29.46848	2.23995	155.62963	0.88170	0.26395	0.34706	249.01920	0.16219	1627.05366

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00037	0.00051	0.00341	0.02517	4.41379	0.00775	21.12436	0.08203	0.00213
#2	-0.00089	-0.00009	0.00353	0.02470	4.41187	0.00774	21.13432	0.08176	0.00186
Mean	**-0.00063**	**0.00021**	**0.00347**	**0.02494**	**4.41283**	**0.00775**	**21.12934**	**0.08189**	**0.00199**
%RSD	59.30918	200.64813	2.62787	1.31022	0.03080	0.09859	0.03333	0.22917	9.41158

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	34.70974	0.00139	0.09448	0.00419	-0.00273	41.76147	0.00307	0.00612	0.00456
#2	34.67365	0.00055	0.07097	-0.00238	0.00178	41.92291	-0.00663	0.01145	0.00120
Mean	**34.69169**	**0.00097**	**0.08273**	**0.00090**	**-0.00047**	**41.84219**	**-0.00178**	**0.00879**	**0.00288**
%RSD	0.07357	60.96258	20.09649	513.64288	675.02506	0.27282	385.97878	42.96378	82.46260

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.33643	-0.00539	0.54562	-0.00181	-0.00058	-0.01098	0.00234	0.00241	0.00053
#2	5.33364	-0.00164	0.54500	-0.00193	-0.00719	-0.01977	0.00186	0.00164	0.00053
Mean	**5.33503**	**-0.00351**	**0.54531**	**-0.00187**	**-0.00388**	**-0.01538**	**0.00210**	**0.00203**	**0.00053**
%RSD	0.03690	75.52351	0.07972	4.71604	120.38280	40.42745	16.34100	26.60122	0.06895

	Pb	**Se**
	calc	calc
#1	-0.00042	0.00508
#2	0.00040	0.00462
Mean	**-0.00001**	**0.00485**
%RSD	4144.24872	6.75279

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:38
SampleId1 : 1309327-11 SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:39:59
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE60

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00076	-0.05005	0.00224	0.07941	0.04581	0.00048	-0.00603	39.89310	-0.00031
#2	-0.00030	-0.04947	-0.00013	0.07716	0.04547	0.00043	0.00158	39.88524	-0.00047
Mean	**-0.00053**	**-0.04976**	**0.00106**	**0.07829**	**0.04564**	**0.00045**	**-0.00223**	**39.88917**	**-0.00039**
%RSD	61.89356	0.83125	159.01467	2.03397	0.53336	8.27390	242.04873	0.01394	29.38919

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00100	-0.00018	0.00050	0.03518	4.35860	0.00755	20.80399	0.07738	0.00146
#2	-0.00143	-0.00023	0.00062	0.03472	4.32813	0.00747	20.76300	0.07778	0.00279
Mean	**-0.00121**	**-0.00020**	**0.00056**	**0.03495**	**4.34336**	**0.00751**	**20.78350**	**0.07758**	**0.00213**
%RSD	24.69235	16.49235	15.85013	0.93498	0.49612	0.71164	0.13946	0.36283	44.12161

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	34.35582	0.00276	0.06940	-0.00196	-0.00133	41.18931	0.00058	0.00425	0.00029
#2	34.02151	0.00061	0.09030	-0.00277	0.00171	41.14531	0.00084	0.00193	-0.00032
Mean	**34.18866**	**0.00168**	**0.07985**	**-0.00236**	**0.00019**	**41.16731**	**0.00071**	**0.00309**	**-0.00002**
%RSD	0.69143	90.43305	18.50610	24.27631	1124.35258	0.07558	25.44955	53.09915	2254.28310

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.25727	0.00024	0.53419	-0.00168	0.00135	-0.01978	0.00132	0.01079	0.00027

#2	5.22647	-0.00445	0.53181	-0.00162	0.00025	-0.01775	0.00127	0.01079	0.00014
Mean	**5.24187**	**-0.00211**	**0.53300**	**-0.00165**	**0.00080**	**-0.01877**	**0.00129**	**0.01079**	**0.00021**
%RSD	0.41549	157.45347	0.31473	2.97247	97.08097	7.64617	2.94927	0.00000	44.74962

	Pb	**Se**
	calc	calc
#1	-0.00154	0.00161
#2	0.00022	0.00043
Mean	**-0.00066**	**0.00102**
%RSD	189.03342	82.09835

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:38
SampleId1 : CCV **SampleId2 :** **[CV]**
Analysis commenced : 9/25/2013 14:41:38
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD1

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19987	47.61363	0.49720	0.99708	1.02449	0.47869	0.52234	48.88701	0.51380
#2	0.19756	47.66509	0.49720	1.00058	1.02253	0.47783	0.51420	48.57953	0.51011
Mean	**0.19872**	**47.63936**	**0.49720**	**0.99883**	**1.02351**	**0.47826**	**0.51827**	**48.73327**	**0.51195**
%RSD	0.82182	0.07639	0.00000	0.24808	0.13516	0.12682	1.11030	0.44614	0.50915

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49854	0.98178	1.02867	19.55787	50.95562	0.50669	47.98650	0.98131	1.01413
#2	0.49736	0.97766	1.02602	19.49248	50.99061	0.50739	47.95285	0.97835	1.00196
Mean	**0.49795**	**0.97972**	**1.02735**	**19.52517**	**50.97312**	**0.50704**	**47.96967**	**0.97983**	**1.00805**
%RSD	0.16634	0.29717	0.18242	0.23682	0.04854	0.09740	0.04960	0.21348	0.85381

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.18824	1.02993	4.72138	0.93974	0.96283	4.89844	0.48522	0.97829	0.95486
#2	51.10667	1.02575	4.71816	0.93823	0.98724	4.93383	0.48969	0.95718	0.98745
Mean	**51.14745**	**1.02784**	**4.71977**	**0.93898**	**0.97503**	**4.91613**	**0.48745**	**0.96774**	**0.97116**
%RSD	0.11277	0.28708	0.04819	0.11371	1.77036	0.50912	0.64769	1.54206	2.37280

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.65130	0.97646	0.50729	0.47518	0.50348	4.91121	0.48265	0.96761	0.97528
#2	4.64275	0.98212	0.50587	0.47524	0.52303	4.88688	0.47879	0.95220	0.97218
Mean	**4.64703**	**0.97929**	**0.50658**	**0.47521**	**0.51325**	**4.89904**	**0.48072**	**0.95991**	**0.97373**
%RSD	0.13015	0.40879	0.19720	0.00827	2.69440	0.35110	0.56758	1.13448	0.22574

	Pb	**Se**
	calc	calc
#1	0.95514	0.96266
#2	0.97092	0.97737

Mean	**0.96303**	**0.97002**	**ser: STEVE WORKMAN**
%RSD	1.15863	1.07222	

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:38
SampleId1 : CCB **SampleId2 :** **[CB]**
Analysis commenced : 9/25/2013 14:43:16
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD2

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00046	-0.02544	0.00066	-0.00682	-0.00117	0.00049	-0.00045	0.12956	-0.00041
#2	-0.00038	-0.02207	-0.01068	-0.00738	-0.00121	0.00040	-0.00020	0.12711	-0.00016
Mean	**-0.00042**	**-0.02376**	**-0.00501**	**-0.00710**	**-0.00119**	**0.00044**	**-0.00033**	**0.12834**	**-0.00029**
%RSD	13.07375	10.03797	160.04971	5.60414	2.55782	15.23091	54.32947	1.34758	62.93422

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00107	0.00079	-0.00190	-0.00147	0.02721	-0.00236	0.03309	0.00006	0.00133
#2	-0.00128	0.00056	-0.00241	-0.00455	0.02449	-0.00238	0.03080	0.00006	0.00040
Mean	**-0.00117**	**0.00067**	**-0.00216**	**-0.00301**	**0.02585**	**-0.00237**	**0.03195**	**0.00006**	**0.00087**
%RSD	12.73891	24.23948	16.59092	72.25365	7.45155	0.64393	5.07827	0.00000	75.84175

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08577	-0.00123	-0.00477	-0.00270	0.00238	0.01180	0.00332	0.00170	0.00501
#2	0.08381	-0.00249	-0.00320	-0.00115	0.00119	-0.00228	-0.00241	-0.00527	-0.00048
Mean	**0.08479**	**-0.00186**	**-0.00398**	**-0.00193**	**0.00179**	**0.00476**	**0.00045**	**-0.00179**	**0.00227**
%RSD	1.63472	47.88303	27.80872	57.01342	47.16605	209.29915	892.54254	275.66512	171.57188

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01806	-0.00258	0.00034	-0.00141	0.00754	-0.02111	-0.00009	0.00241	0.00216
#2	-0.01579	-0.00821	0.00031	-0.00149	0.00892	-0.02043	-0.00041	0.00088	0.00201
Mean	**-0.01692**	**-0.00539**	**0.00033**	**-0.00145**	**0.00823**	**-0.02077**	**-0.00025**	**0.00164**	**0.00208**
%RSD	9.47585	73.83771	5.27435	4.06217	11.81166	2.31087	92.66743	65.52783	5.24978

	Pb	**Se**
	calc	calc
#1	0.00069	0.00391
#2	0.00041	-0.00208
Mean	**0.00055**	**0.00092**
%RSD	35.71564	462.22687

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:38
SampleId1 : 1309327-12 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 14:44:54
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE61

Final concentrations **0:45** **User: STEVE WORKMAN**

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00062	-0.06747	-0.00804	0.19789	0.17870	0.00048	-0.00349	93.41285	-0.00032
#2	-0.00132	-0.06114	-0.00488	0.20116	0.18086	0.00048	0.00211	93.91991	0.00039
Mean	**-0.00097**	**-0.06431**	**-0.00646**	**0.19953**	**0.17978**	**0.00048**	**-0.00069**	**93.66638**	**0.00003**
%RSD	51.57893	6.96813	34.63444	1.15778	0.84747	0.60153	572.76409	0.38279	1509.87137

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00088	-0.00045	0.00467	0.00037	9.56165	0.01791	22.51474	0.00470	0.00810
#2	0.00130	0.00041	0.00568	0.00084	9.69633	0.01819	22.72064	0.00484	0.01142
Mean	**0.00109**	**-0.00002**	**0.00518**	**0.00060**	**9.62899**	**0.01805**	**22.61769**	**0.00477**	**0.00976**
%RSD	27.59954	3058.24812	13.76361	54.01441	0.98904	1.12818	0.64373	1.96478	24.04345

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	126.49734	0.00187	0.08717	-0.00321	0.00106	77.16145	0.00012	0.00843	0.00624
#2	127.11269	0.00407	0.10075	0.00421	0.00085	77.85119	0.00338	0.00286	0.00333
Mean	**126.80502**	**0.00297**	**0.09396**	**0.00050**	**0.00096**	**77.50632**	**0.00175**	**0.00565**	**0.00479**
%RSD	0.34314	52.50979	10.22377	1057.18032	15.34271	0.62926	131.34286	69.69564	42.86984

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.49824	0.00118	0.81019	-0.00235	-0.01118	-0.02449	0.00115	0.00622	0.00309
#2	5.56251	0.00024	0.81745	-0.00227	-0.00401	-0.01029	0.00191	0.00545	0.00275
Mean	**5.53037**	**0.00071**	**0.81382**	**-0.00231**	**-0.00759**	**-0.01739**	**0.00153**	**0.00584**	**0.00292**
%RSD	0.82182	93.62562	0.63097	2.54900	66.71905	57.75616	34.91314	9.23362	8.16882

	Pb	**Se**
	calc	calc
#1	-0.00036	0.00697
#2	0.00197	0.00318
Mean	**0.00080**	**0.00507**
%RSD	205.41257	52.81634

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:38
SampleId1 : 1309327-13 **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 14:46:27
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE62

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00131	-0.04786	0.00409	0.20263	0.10870	0.00053	-0.00247	86.84871	-0.00056
#2	0.00016	-0.05565	-0.00224	0.20398	0.10784	0.00045	-0.00349	87.15641	-0.00045
Mean	**-0.00057**	**-0.05175**	**0.00092**	**0.20330**	**0.10827**	**0.00049**	**-0.00298**	**87.00256**	**-0.00050**
%RSD	181.76023	10.64695	484.52762	0.47020	0.56244	10.70273	24.09626	0.25009	14.36761

ted: 9/25/2013 15:20:45 User: STEVE WORKMAN

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00036	0.00010	0.00366	0.00161	11.32278	0.01731	19.88562	0.05350	0.00824
#2	0.00025	0.00014	0.00353	0.00130	11.21217	0.01713	19.83063	0.05377	0.00797
Mean	**0.00030**	**0.00012**	**0.00360**	**0.00145**	**11.26747**	**0.01722**	**19.85812**	**0.05363**	**0.00810**
%RSD	24.86874	26.12283	2.50097	15.00132	0.69416	0.73932	0.19582	0.34977	2.31745

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	109.41870	0.00228	0.14413	-0.00286	-0.00040	67.60915	0.00037	0.00170	0.00150
#2	108.54738	0.00244	0.12845	-0.00043	0.00039	67.54904	0.00037	0.00704	0.00929
Mean	**108.98304**	**0.00236**	**0.13629**	**-0.00164**	**0.00000**	**67.57909**	**0.00037**	**0.00437**	**0.00540**
%RSD	0.56533	4.70796	8.13481	104.78193	24917.39653	0.06289	0.31100	86.49987	102.03762

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	5.90708	0.00493	0.72364	-0.00202	-0.00533	-0.02111	0.00158	0.12669	0.00089
#2	5.88953	0.00399	0.72053	-0.00218	-0.00064	-0.01840	0.00185	0.12593	0.00124
Mean	**5.89830**	**0.00446**	**0.72209**	**-0.00210**	**-0.00299**	**-0.01975**	**0.00172**	**0.12631**	**0.00106**
%RSD	0.21047	14.86770	0.30465	5.60295	110.89396	9.68373	11.07847	0.42715	23.02408

	Pb	Se
	calc	calc
#1	-0.00122	0.00157
#2	0.00012	0.00854
Mean	**-0.00055**	**0.00505**
%RSD	172.51560	97.56493

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:39
SampleId1 : 1309329-1 50X SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:48:14
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE63

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00054	-0.04156	0.00092	0.03427	0.00004	0.00038	-0.00121	6.07738	-0.00044
#2	-0.00045	-0.04390	-0.00778	0.03528	0.00004	0.00032	-0.00249	6.09016	-0.00018
Mean	**-0.00050**	**-0.04273**	**-0.00343**	**0.03477**	**0.00004**	**0.00035**	**-0.00185**	**6.08377**	**-0.00031**
%RSD	11.73796	3.87046	179.52966	2.06027	0.00000	11.77000	48.62138	0.14850	60.36133

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00011	0.00005	-0.00140	-0.00517	0.12529	0.00096	2.72984	-0.00033	-0.00398
#2	-0.00117	-0.00018	-0.00216	-0.00502	0.12175	0.00097	2.72869	-0.00047	-0.00292
Mean	**-0.00064**	**-0.00006**	**-0.00178**	**-0.00509**	**0.12352**	**0.00096**	**2.72927**	**-0.00040**	**-0.00345**
%RSD	116.54086	246.17874	30.09754	2.13798	2.02768	0.79261	0.02980	23.49507	21.77900

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	16.73513	-0.00149	-0.02096	-0.00250	-0.00239	10.76299	0.00205	0.00658	0.00394
#2	16.67648	-0.00144	-0.01469	-0.00080	-0.00245	10.77723	-0.00243	0.00983	0.00349
Mean	**16.70580**	**-0.00147**	**-0.01782**	**-0.00165**	**-0.00242**	**10.77011**	**-0.00019**	**0.00820**	**0.00372**
%RSD	0.24823	2.53066	24.86175	72.96948	1.77189	0.09350	1663.61227	28.00051	8.71439

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.16207	-0.00164	0.23259	-0.00202	0.00396	-0.01569	-0.00046	0.00012	0.00113
#2	0.15980	-0.00164	0.23249	-0.00181	0.00754	-0.02313	-0.00122	0.00012	0.00127
Mean	**0.16093**	**-0.00164**	**0.23254**	**-0.00191**	**0.00575**	**-0.01941**	**-0.00084**	**0.00012**	**0.00120**
%RSD	0.99563	0.01045	0.02969	7.68913	43.97641	27.09908	63.39117	0.00000	8.09098

	Pb	Se
	calc	calc
#1	-0.00243	0.00482
#2	-0.00190	0.00560
Mean	**-0.00216**	**0.00521**
%RSD	17.17328	10.53466

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:39
SampleId1 : 1309329-1D 50X SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:49:47
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE64

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00046	-0.04667	0.00356	0.03584	0.00017	0.00033	0.00284	6.23072	0.00007
#2	0.00000	-0.05382	0.00066	0.03607	0.00021	0.00026	0.00843	6.25216	0.00050
Mean	**-0.00023**	**-0.05024**	**0.00211**	**0.03596**	**0.00019**	**0.00029**	**0.00564**	**6.24144**	**0.00028**
%RSD	142.86621	10.05627	97.20276	0.44279	16.23563	17.39339	70.08278	0.24287	107.57345

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00064	-0.00004	-0.00228	-0.00502	0.13891	0.00103	2.76838	-0.00033	-0.00132
#2	-0.00022	0.00088	-0.00254	-0.00440	0.14654	0.00104	2.78334	-0.00033	-0.00079
Mean	**-0.00043**	**0.00042**	**-0.00241**	**-0.00471**	**0.14273**	**0.00103**	**2.77586**	**-0.00033**	**-0.00106**
%RSD	69.50310	155.34626	7.49557	9.25125	3.77967	0.98504	0.38096	0.00000	35.47240

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	16.96674	-0.00086	-0.00372	-0.00023	-0.00212	10.85557	0.00057	0.00611	-0.00170
#2	16.91963	-0.00013	-0.01260	0.00231	-0.00425	10.94103	0.00107	0.00170	-0.00293
Mean	**16.94318**	**-0.00050**	**-0.00816**	**0.00104**	**-0.00319**	**10.89830**	**0.00082**	**0.00391**	**-0.00232**
%RSD	0.19658	104.85076	76.91633	172.63749	47.19656	0.55449	43.06885	79.78585	37.30554

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr

	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.16094	0.00587	0.23681	-0.00193	0.00369	-0.02043	-0.00057	0.00088	0.00132
#2	0.16240	-0.01102	0.23619	-0.00185	0.00699	-0.01096	0.00029	-0.00140	0.00137
Mean	**0.16167**	**-0.00258**	**0.23650**	**-0.00189**	**0.00534**	**-0.01569**	**-0.00014**	**-0.00026**	**0.00135**
%RSD	0.63854	463.67997	0.18615	3.10946	43.80752	42.66152	434.53886	620.65428	2.68389

	Pb	**Se**
	calc	calc
#1	-0.00149	0.00090
#2	-0.00206	-0.00138
Mean	**-0.00178**	**-0.00024**
%RSD	22.73754	663.42432

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:39
SampleId1 : 1309329-1L 250X SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:51:20
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE65

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00084	-0.04779	-0.00066	0.00331	-0.00061	0.00034	-0.00046	1.26807	0.00004
#2	-0.00099	-0.05292	0.00092	0.00230	-0.00057	0.00028	-0.00452	1.26602	-0.00068
Mean	**-0.00092**	**-0.05036**	**0.00013**	**0.00280**	**-0.00059**	**0.00031**	**-0.00249**	**1.26705**	**-0.00032**
%RSD	11.62756	7.19806	844.92011	25.54479	5.18226	13.08576	115.46722	0.11399	158.14988

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00033	-0.00023	-0.00228	-0.00779	0.02803	-0.00195	0.55751	-0.00033	-0.00252
#2	-0.00075	-0.00077	-0.00279	-0.00840	0.02830	-0.00194	0.54947	-0.00047	-0.00172
Mean	**-0.00054**	**-0.00050**	**-0.00254**	**-0.00809**	**0.02817**	**-0.00195**	**0.55349**	**-0.00040**	**-0.00212**
%RSD	55.69233	77.72719	14.06131	5.37980	0.68390	0.26147	1.02646	23.49507	26.56018

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	3.04041	-0.00050	0.00098	-0.00274	-0.00166	2.14143	0.00031	0.00239	-0.00079
#2	3.01825	-0.00107	-0.01991	0.00013	-0.00060	2.11320	-0.00391	0.00750	0.00013
Mean	**3.02933**	**-0.00078**	**-0.00947**	**-0.00131**	**-0.00113**	**2.12732**	**-0.00180**	**0.00495**	**-0.00033**
%RSD	0.51707	52.05739	156.02475	155.01735	66.75802	0.93859	166.05305	72.99678	195.82618

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.01601	0.00024	0.04585	-0.00191	0.00671	-0.02110	-0.00068	0.00164	0.00113
#2	0.01828	0.00493	0.04577	-0.00188	-0.00541	-0.02719	-0.00052	-0.00064	0.00116
Mean	**0.01714**	**0.00259**	**0.04581**	**-0.00189**	**0.00065**	**-0.02414**	**-0.00060**	**0.00050**	**0.00114**
%RSD	9.39188	128.33957	0.13132	1.03649	1315.18079	17.82493	18.92165	322.28581	2.09458

	Pb	**Se**
	calc	calc

#1	-0.00202	0.00027	**ser: STEVE WORKMAN**
#2	-0.00036	0.00258	
Mean	**-0.00119**	**0.00143**	
%RSD	99.12087	114.56675	

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:39
SampleId1 : 1309329-1MS 50X SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:52:52
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE66

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00172	-0.00655	0.02652	0.05419	0.02056	0.00132	-0.00017	6.94767	0.00085
#2	0.00195	-0.00554	0.01702	0.05408	0.02051	0.00130	-0.00576	6.92786	0.00048
Mean	**0.00184**	**-0.00604**	**0.02177**	**0.05414**	**0.02053**	**0.00131**	**-0.00296**	**6.93777**	**0.00067**
%RSD	9.20300	11.81173	30.86190	0.14705	0.14815	0.71212	133.25686	0.20194	40.06369

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00942	0.00411	0.00328	0.01392	0.81260	0.00921	3.53944	0.00961	0.01846
#2	0.00836	0.00421	0.00328	0.01423	0.81505	0.00920	3.53541	0.00961	0.01753
Mean	**0.00889**	**0.00416**	**0.00328**	**0.01408**	**0.81382**	**0.00921**	**3.53743**	**0.00961**	**0.01799**
%RSD	8.42140	1.66218	0.04913	1.54694	0.21333	0.05530	0.08055	0.00000	3.65248

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	17.88897	0.00994	-0.00163	0.01088	0.00723	11.12622	0.00888	0.03585	0.03403
#2	17.88316	0.00900	0.00098	0.00456	0.00902	11.16184	0.00912	0.03771	0.04243
Mean	**17.88606**	**0.00947**	**-0.00033**	**0.00772**	**0.00812**	**11.14403**	**0.00900**	**0.03678**	**0.03823**
%RSD	0.02296	7.04943	562.83551	57.89805	15.61749	0.22600	1.91203	3.56483	15.53678

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19478	0.00774	0.24655	0.00732	0.03949	-0.01706	0.00950	0.00850	0.00108
#2	0.19461	0.01055	0.24649	0.00757	0.04280	-0.02517	0.00907	0.00698	0.00101
Mean	**0.19470**	**0.00914**	**0.24652**	**0.00744**	**0.04114**	**-0.02112**	**0.00929**	**0.00774**	**0.00104**
%RSD	0.05947	21.77052	0.01751	2.37219	5.67458	27.17556	3.27644	13.92248	4.65440

	Pb	**Se**
	calc	calc
#1	0.00844	0.03464
#2	0.00754	0.04086
Mean	**0.00799**	**0.03775**
%RSD	8.04397	11.65227

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:39
SampleId1 : 1309329-1MSD 50X SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:54:25

Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE67

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00094	-0.00383	0.01966	0.05644	0.02103	0.00140	-0.00068	7.05129	0.00081
#2	0.00157	-0.00107	0.01913	0.05633	0.02111	0.00135	-0.00220	7.09341	0.00082
Mean	**0.00125**	**-0.00245**	**0.01939**	**0.05639**	**0.02107**	**0.00138**	**-0.00144**	**7.07235**	**0.00082**
%RSD	35.09236	79.67304	1.92446	0.14118	0.28873	2.38940	74.69167	0.42106	0.31365

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00899	0.00374	0.00316	0.01362	0.83906	0.00952	3.58434	0.00974	0.01939
#2	0.00963	0.00444	0.00316	0.01593	0.84615	0.00953	3.60910	0.00974	0.01687
Mean	**0.00931**	**0.00409**	**0.00316**	**0.01477**	**0.84260**	**0.00952**	**3.59672**	**0.00974**	**0.01813**
%RSD	4.81030	11.99497	0.01704	11.05779	0.59526	0.08021	0.48666	0.00000	9.84127

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	18.06852	0.01005	-0.00686	0.00926	0.00809	11.38270	0.00764	0.03585	0.03724
#2	18.10570	0.01000	-0.00686	0.00936	0.00843	11.43970	0.01061	0.03306	0.03968
Mean	**18.08711**	**0.01002**	**-0.00686**	**0.00931**	**0.00826**	**11.41120**	**0.00913**	**0.03446**	**0.03846**
%RSD	0.14534	0.37011	0.00000	0.77415	2.84962	0.35323	23.01619	5.72597	4.49348

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19430	0.01900	0.25000	0.00758	0.04610	-0.02247	0.00929	0.01079	0.00101
#2	0.19623	0.02369	0.25054	0.00829	0.04169	-0.02518	0.00972	0.01003	0.00108
Mean	**0.19527**	**0.02134**	**0.25027**	**0.00793**	**0.04390**	**-0.02382**	**0.00950**	**0.01041**	**0.00104**
%RSD	0.70178	15.54403	0.15182	6.30411	7.09932	8.03469	3.21519	5.17746	4.63090

	Pb	Se
	calc	calc
#1	0.00848	0.03678
#2	0.00874	0.03748
Mean	**0.00861**	**0.03713**
%RSD	2.10204	1.33524

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:40
SampleId1 : 1309329-2 50X SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:55:57
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE68

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00061	-0.04334	0.00040	0.03528	0.00004	0.00045	-0.00122	6.19609	-0.00012
#2	-0.00069	-0.04330	-0.00541	0.03562	-0.00001	0.00042	-0.00249	6.20640	-0.00037

Mean	**-0.00065**	**-0.04332**	**-0.00251**	**0.03545**	**0.00002**	**0.00044**	**-0.00185**	**6.20124**	**-0.00024**
%RSD	8.79358	0.07898	163.78897	0.67367	199.02749	5.56246	48.42696	0.11751	73.86843

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00064	0.00001	-0.00203	-0.00748	0.11630	0.00100	2.77931	-0.00033	-0.00172
#2	-0.00117	-0.00055	-0.00228	-0.00763	0.12039	0.00099	2.78391	-0.00047	0.00000
Mean	**-0.00091**	**-0.00027**	**-0.00216**	**-0.00756**	**0.11834**	**0.00099**	**2.78161**	**-0.00040**	**-0.00086**
%RSD	41.27567	144.76786	8.32934	1.44088	2.44195	1.02428	0.11698	23.49507	141.99875

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	17.20495	-0.00149	-0.00424	-0.00369	-0.00166	10.99089	-0.00143	-0.00295	-0.00079
#2	17.20560	-0.00133	-0.01156	-0.00189	-0.00034	10.99801	-0.00191	0.00472	0.00211
Mean	**17.20527**	**-0.00141**	**-0.00790**	**-0.00279**	**-0.00100**	**10.99445**	**-0.00167**	**0.00088**	**0.00066**
%RSD	0.00266	7.87376	65.43631	45.68850	93.85205	0.04581	20.60975	613.26946	310.00723

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.15461	0.00024	0.23842	-0.00196	0.00864	-0.02245	-0.00052	-0.00140	0.00101
#2	0.15462	0.00587	0.23901	-0.00185	0.00478	-0.01840	-0.00014	0.00012	0.00110
Mean	**0.15461**	**0.00305**	**0.23872**	**-0.00191**	**0.00671**	**-0.02042**	**-0.00033**	**-0.00064**	**0.00106**
%RSD	0.00257	130.34627	0.17358	4.11579	40.60640	14.04870	80.45570	167.99965	5.73035

	Pb	**Se**
	calc	calc
#1	-0.00234	-0.00151
#2	-0.00085	0.00298
Mean	**-0.00159**	**0.00074**
%RSD	65.76984	431.36223

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:40
SampleId1 : 1309329-3 50X **SampleId2 :** **[SAMPLE]**
Analysis commenced : 9/25/2013 14:57:30
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE69

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00069	-0.03602	-0.00277	0.03472	-0.00005	0.00054	0.00081	6.13797	-0.00036
#2	-0.00069	-0.04223	-0.00224	0.03449	-0.00005	0.00049	-0.00096	6.11860	-0.00054
Mean	**-0.00069**	**-0.03912**	**-0.00251**	**0.03460**	**-0.00005**	**0.00051**	**-0.00008**	**6.12828**	**-0.00045**
%RSD	0.38713	11.22056	14.88935	0.46007	0.00000	7.36453	1656.56899	0.22352	28.32816

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00001	0.00000	-0.00254	-0.00779	0.11085	0.00094	2.76263	-0.00047	-0.00239
#2	-0.00054	-0.00013	-0.00203	-0.00886	0.10676	0.00091	2.75630	-0.00033	-0.00066
Mean	**-0.00027**	**-0.00006**	**-0.00228**	**-0.00833**	**0.10881**	**0.00092**	**2.75946**	**-0.00040**	**-0.00152**

%RSD	137.50319	149.57757	15.70071	9.15347	2.65592	2.47975	0.16213	23.49507	80.11763

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	17.05707	-0.00118	-0.00581	-0.00158	-0.00027	10.97664	0.00380	0.00216	-0.00033
#2	16.99202	-0.00186	-0.00738	-0.00132	-0.00133	10.98376	0.00480	0.00634	-0.00140
Mean	**17.02454**	**-0.00152**	**-0.00659**	**-0.00145**	**-0.00080**	**10.98020**	**0.00430**	**0.00425**	**-0.00087**
%RSD	0.27016	31.76180	16.79800	12.29651	93.71281	0.04587	16.53603	69.49061	87.34916

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.14584	0.00587	0.23690	-0.00191	-0.00348	-0.01840	0.00002	0.00012	0.00107
#2	0.14585	0.00024	0.23647	-0.00189	0.00423	-0.02245	-0.00063	0.00241	0.00083
Mean	**0.14585**	**0.00305**	**0.23668**	**-0.00190**	**0.00038**	**-0.02042**	**-0.00030**	**0.00126**	**0.00095**
%RSD	0.00402	130.34998	0.12765	0.51635	1444.46438	14.04585	150.63699	127.92902	17.90465

	Pb	Se
	calc	calc
#1	-0.00070	0.00050
#2	-0.00133	0.00118
Mean	**-0.00101**	**0.00084**
%RSD	43.26914	57.20550

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:40
SampleId1 : 1309329-4 50X SampleId2 : [SAMPLE]
Analysis commenced : 9/25/2013 14:59:02
Dilution ratio : 1.00000 to 1.00000 Tray : Position : TUBE70

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00046	-0.03765	0.00224	0.03460	-0.00001	0.00055	-0.00401	6.14663	-0.00025
#2	-0.00161	-0.03614	0.00383	0.03562	-0.00009	0.00056	-0.00503	6.15652	-0.00041
Mean	**-0.00104**	**-0.03689**	**0.00303**	**0.03511**	**-0.00005**	**0.00056**	**-0.00452**	**6.15157**	**-0.00033**
%RSD	78.79196	2.89469	36.88692	2.04045	123.54241	0.94595	15.93173	0.11371	34.28917

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00085	-0.00069	-0.00229	-0.00871	0.09859	0.00095	2.76550	-0.00033	-0.00132
#2	-0.00117	-0.00054	-0.00203	-0.00917	0.09123	0.00099	2.78794	-0.00033	-0.00239
Mean	**-0.00101**	**-0.00062**	**-0.00216**	**-0.00894**	**0.09491**	**0.00097**	**2.77672**	**-0.00033**	**-0.00186**
%RSD	22.17087	16.79247	8.40482	3.65270	5.48041	2.87402	0.57126	0.00000	40.48227

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	17.27830	-0.00123	-0.00163	-0.00288	0.00185	11.02650	-0.00043	0.01053	-0.00048
#2	17.39883	-0.00186	-0.00947	-0.00140	0.00000	11.15471	-0.00168	-0.00202	0.00379
Mean	**17.33857**	**-0.00154**	**-0.00555**	**-0.00214**	**0.00093**	**11.09061**	**-0.00105**	**0.00425**	**0.00165**
%RSD	0.49157	28.82067	99.79624	49.09914	141.08056	0.81747	84.19530	208.72153	182.78083

ted: 9/25/2013 15:20:45 User: STEVE WORKMAN

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.14844	0.00212	0.24041	-0.00207	0.00313	-0.01501	-0.00047	0.00012	0.00096
#2	0.15201	0.01056	0.24121	-0.00214	0.00753	-0.02719	-0.00090	0.00164	0.00072
Mean	**0.15023**	**0.00634**	**0.24081**	**-0.00211**	**0.00533**	**-0.02110**	**-0.00068**	**0.00088**	**0.00084**
%RSD	1.68065	94.21185	0.23303	2.32688	58.32324	40.79496	44.69410	122.10425	20.15856

	Pb	Se
	calc	calc
#1	0.00027	0.00318
#2	-0.00046	0.00186
Mean	**-0.00010**	**0.00252**
%RSD	546.87869	37.27950

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:40
SampleId1 : CCV SampleId2 : [CV]
Analysis commenced : 9/25/2013 15:00:47
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD1

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19594	46.97816	0.50467	0.99561	1.02475	0.46984	0.51977	47.77255	0.50386
#2	0.19593	47.05746	0.49960	0.99809	1.02366	0.47075	0.52105	47.76769	0.50152
Mean	**0.19593**	**47.01781**	**0.50214**	**0.99685**	**1.02421**	**0.47029**	**0.52041**	**47.77012**	**0.50269**
%RSD	0.00586	0.11926	0.71365	0.17641	0.07504	0.13704	0.17381	0.00720	0.32806

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49144	0.96196	1.02868	19.17406	50.95562	0.50896	47.45963	0.95818	0.99942
#2	0.49059	0.96051	1.02931	19.19769	50.94791	0.50839	47.45543	0.96154	0.99688
Mean	**0.49101**	**0.96123**	**1.02899**	**19.18588**	**50.95177**	**0.50868**	**47.45753**	**0.95986**	**0.99815**
%RSD	0.12310	0.10688	0.04310	0.08711	0.01070	0.07907	0.00626	0.24756	0.18002

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.29334	1.02406	4.75355	0.92767	0.94700	4.82057	0.48345	0.96445	0.95804
#2	51.16996	1.02190	4.73210	0.93159	0.96307	4.87720	0.48268	0.97196	0.98310
Mean	**51.23165**	**1.02298**	**4.74283**	**0.92963**	**0.95503**	**4.84888**	**0.48307**	**0.96821**	**0.97057**
%RSD	0.17030	0.14969	0.31977	0.29821	1.18989	0.82583	0.11164	0.54849	1.82622

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.57924	0.97081	0.50553	0.46441	0.50334	4.89390	0.47356	0.93681	0.96624
#2	4.57890	0.97458	0.50514	0.46609	0.53047	4.91351	0.47513	0.93527	0.96689
Mean	**4.57907**	**0.97270**	**0.50533**	**0.46525**	**0.51690**	**4.90370**	**0.47434**	**0.93604**	**0.96656**
%RSD	0.00533	0.27422	0.05501	0.25564	3.71225	0.28288	0.23417	0.11631	0.04751

	Pb	Seser: STEVE WORKMAN
	calc	calc
#1	0.94056	0.96017
#2	0.95259	0.97939
Mean	**0.94657**	**0.96978**
%RSD	0.89827	1.40143

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:40
SampleId1 : CCB **SampleId2 :** **[CB]**
Analysis commenced : 9/25/2013 15:02:24
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD2

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00077	-0.00140	0.00356	-0.00682	-0.00130	0.00076	-0.00274	0.13037	-0.00008
#2	-0.00007	-0.00813	-0.00119	-0.00761	-0.00117	0.00067	0.00005	0.12915	-0.00008
Mean	**-0.00042**	**-0.00476**	**0.00119**	**-0.00721**	**-0.00123**	**0.00071**	**-0.00134**	**0.12976**	**-0.00008**
%RSD	118.33676	99.83632	282.69899	7.72337	7.40558	9.34815	146.91212	0.66639	2.75017

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00033	0.00033	-0.00241	-0.00086	-0.01011	-0.00247	0.03137	0.00006	0.00199
#2	-0.00107	0.00028	-0.00178	-0.00332	-0.00003	-0.00247	0.03252	-0.00007	-0.00013
Mean	**-0.00070**	**0.00031**	**-0.00209**	**-0.00209**	**-0.00507**	**-0.00247**	**0.03195**	**0.00000**	**0.00093**
%RSD	75.01865	10.44024	21.37464	83.35595	140.63209	0.10317	2.53914	7375.32585	161.01628

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08320	-0.00170	0.00046	0.00132	-0.00026	0.00476	-0.00315	0.00170	-0.00170
#2	0.08107	-0.00175	-0.00529	-0.00394	0.00013	-0.00933	0.00431	0.00216	0.00257
Mean	**0.08213**	**-0.00173**	**-0.00242**	**-0.00131**	**-0.00006**	**-0.00228**	**0.00058**	**0.00193**	**0.00043**
%RSD	1.83224	2.14654	168.06191	284.47056	437.88460	436.07020	908.94610	17.00830	697.28801

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.01854	0.00399	0.00033	-0.00149	0.00231	-0.02178	-0.00057	0.00164	0.00185
#2	-0.01887	0.00118	0.00035	-0.00163	-0.00182	-0.02313	-0.00030	0.00088	0.00175
Mean	**-0.01871**	**0.00258**	**0.00034**	**-0.00156**	**0.00025**	**-0.02246**	**-0.00044**	**0.00126**	**0.00180**
%RSD	1.25723	77.01168	5.08471	6.28860	1189.36136	4.25291	43.54622	42.64322	4.03528

	Pb	Se
	calc	calc
#1	0.00027	-0.00057
#2	-0.00122	0.00243
Mean	**-0.00048**	**0.00093**
%RSD	219.88217	228.22624

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:41

SampleId1 : CRI **SampleId2 :** **[CV]**
Analysis commenced : 9/25/2013 15:03:58
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD6

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.02063	0.35105	0.01438	0.40899	0.44867	0.01231	0.05716	5.06489	0.01236
#2	0.02046	0.34217	0.00488	0.40392	0.44712	0.01227	0.05310	5.07887	0.01227
Mean	**0.02054**	**0.34661**	**0.00963**	**0.40645**	**0.44790**	**0.01229**	**0.05513**	**5.07188**	**0.01232**
%RSD	0.55529	1.81226	69.74367	0.88272	0.24561	0.21008	5.21141	0.19500	0.47360

	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.10386	0.02262	0.05357	0.19180	4.08878	0.01411	5.03897	0.03281	0.02085
#2	0.10439	0.02312	0.05243	0.19103	4.04488	0.01396	5.01879	0.03308	0.02244
Mean	**0.10413**	**0.02287**	**0.05300**	**0.19142**	**4.06683**	**0.01404**	**5.02888**	**0.03294**	**0.02165**
%RSD	0.35767	1.55724	1.52125	0.28498	0.76338	0.72540	0.28372	0.56926	5.20527

	Na	Ni	P	Pb I	Pb II	S	Sb	Se I	Se II
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.19379	0.08817	0.18490	0.00752	0.00657	0.18792	0.12370	0.00995	0.00825
#2	4.14405	0.08796	0.18438	0.00830	0.00550	0.18792	0.12371	0.02575	0.01176
Mean	**4.16892**	**0.08807**	**0.18464**	**0.00791**	**0.00604**	**0.18792**	**0.12370**	**0.01785**	**0.01000**
%RSD	0.84363	0.16855	0.20021	6.96601	12.46609	0.00000	0.00416	62.58817	24.82736

	Si	Sn	Sr	Ti	Tl	U	V	Zn	Zr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08515	0.10723	0.02165	0.01932	0.01755	0.19043	0.10440	0.03975	0.05372
#2	0.08174	0.10348	0.02160	0.01955	0.03352	0.19652	0.10548	0.04204	0.05416
Mean	**0.08345**	**0.10535**	**0.02163**	**0.01943**	**0.02554**	**0.19347**	**0.10494**	**0.04089**	**0.05394**
%RSD	2.88442	2.52117	0.15887	0.85802	44.23109	2.22485	0.72634	3.95429	0.58498

	Pb	Se
	calc	calc
#1	0.00689	0.00881
#2	0.00644	0.01642
Mean	**0.00666**	**0.01262**
%RSD	4.78220	42.62124

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:41
SampleId1 : ICSA **SampleId2 :** **[ICSAB]**
Analysis commenced : 9/25/2013 15:05:31
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD3

Final concentrations

	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

#1	0.00047	251.53684	0.00541	-0.01323	-0.00091	0.00130	0.00134	258.57868	0.00127
#2	0.00009	252.91848	-0.01279	-0.01526	-0.00082	0.00126	0.00363	259.09584	0.00077
Mean	**0.00028**	**252.22766**	**-0.00369**	**-0.01425**	**-0.00087**	**0.00128**	**0.00248**	**258.83726**	**0.00102**
%RSD	96.26603	0.38734	348.62790	10.05438	7.02024	2.27612	64.96709	0.14128	34.38653

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00316	0.00031	-0.00484	106.88243	-0.01011	-0.00224	258.15927	0.00139	0.00080
#2	0.00263	-0.00047	-0.00471	107.20369	-0.01174	-0.00226	258.85565	0.00126	-0.00026
Mean	**0.00290**	**-0.00008**	**-0.00478**	**107.04306**	**-0.01092**	**-0.00225**	**258.50746**	**0.00132**	**0.00027**
%RSD	12.90661	661.57962	1.91253	0.21222	10.57904	0.67897	0.19049	7.07792	279.15286

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08185	0.00034	-0.00842	0.00987	-0.00493	-0.00933	0.00481	0.01779	-0.00747
#2	0.08129	0.00160	0.00202	0.00215	-0.00259	-0.01637	0.00331	0.00431	0.00052
Mean	**0.08157**	**0.00097**	**-0.00320**	**0.00601**	**-0.00376**	**-0.01285**	**0.00406**	**0.01105**	**-0.00347**
%RSD	0.48547	91.44380	230.77596	90.83615	44.09026	38.75996	26.05670	86.28857	162.56285

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.02215	0.00305	0.00103	-0.00028	0.00455	0.08119	0.00016	0.01307	0.00477
#2	-0.02604	0.00868	0.00103	-0.00030	-0.00145	0.07148	-0.00019	0.01155	0.00422
Mean	**-0.02410**	**0.00587**	**0.00103**	**-0.00029**	**0.00155**	**0.07633**	**-0.00001**	**0.01231**	**0.00449**
%RSD	11.43123	67.85261	0.00000	3.37646	272.97543	8.99837	1830.28792	8.75289	8.62076

	Pb	**Se**
	calc	calc
#1	0.00000	0.00094
#2	-0.00101	0.00178
Mean	**-0.00051**	**0.00136**
%RSD	140.12813	43.49728

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:41
SampleId1 : ICSAB SampleId2 : [ICSAB]
Analysis commenced : 9/25/2013 15:07:08
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD4

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19819	248.30464	0.10551	0.96260	0.51149	0.45131	0.52045	253.02947	1.01427
#2	0.20021	248.12123	0.10049	0.96746	0.51201	0.45355	0.52096	254.50407	1.01315
Mean	**0.19920**	**248.21294**	**0.10300**	**0.96503**	**0.51175**	**0.45243**	**0.52070**	**253.76677**	**1.01371**
%RSD	0.71641	0.05225	3.44880	0.35611	0.07170	0.34922	0.06942	0.41089	0.07823

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.47567	0.47210	0.53796	104.68480	-0.01528	1.07312	253.64382	0.47037	0.96478

#2	0.47673	0.47363	0.53606	105.34117	-0.01120	1.07022	253.97927	0.47330	0.96920
Mean	**0.47620**	**0.47287**	**0.53701**	**105.01298**	**-0.01324**	**1.07167**	**253.81154**	**0.47183**	**0.96699**
%RSD	0.15630	0.22836	0.24991	0.44196	21.82231	0.19145	0.09345	0.44005	0.32267

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.06315	0.97416	0.93986	0.04890	0.04668	0.94207	0.58690	0.05314	0.03390
#2	0.06343	0.97442	0.94511	0.04651	0.05284	0.94912	0.57635	0.04431	0.03827
Mean	**0.06329**	**0.97429**	**0.94248**	**0.04770**	**0.04976**	**0.94559**	**0.58163**	**0.04872**	**0.03609**
%RSD	0.31275	0.01916	0.39392	3.53622	8.75232	0.52725	1.28184	12.81610	8.56808

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.85585	0.99106	0.95268	0.90295	0.10629	9.61349	0.46218	0.85678	0.46476
#2	0.85976	0.97784	0.95406	0.90781	0.10477	9.61434	0.46451	0.85216	0.46685
Mean	**0.85781**	**0.98445**	**0.95337**	**0.90538**	**0.10553**	**9.61392**	**0.46335**	**0.85447**	**0.46580**
%RSD	0.32264	0.94928	0.10217	0.37969	1.01954	0.00628	0.35455	0.38190	0.31687

	Pb	**Se**
	calc	calc
#1	0.04742	0.04031
#2	0.05073	0.04028
Mean	**0.04908**	**0.04029**
%RSD	4.77471	0.04213

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:41
SampleId1 : CCV **SampleId2 :** **[CV]**
Analysis commenced : 9/25/2013 15:08:46
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD1

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.19687	47.14528	0.51187	1.00137	1.02275	0.47379	0.53119	48.67787	0.51508
#2	0.19834	47.23932	0.51134	1.00047	1.02110	0.47433	0.51876	48.70401	0.51316
Mean	**0.19761**	**47.19230**	**0.51161**	**1.00092**	**1.02192**	**0.47406**	**0.52498**	**48.69094**	**0.51412**
%RSD	0.52595	0.14090	0.07375	0.06389	0.11431	0.07973	1.67480	0.03796	0.26332

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.49526	0.97233	1.02729	19.42014	50.80440	0.50503	47.77500	0.97068	1.00423
#2	0.49631	0.97530	1.02767	19.43923	50.80411	0.50493	47.82126	0.97257	1.01172
Mean	**0.49579**	**0.97382**	**1.02748**	**19.42969**	**50.80426**	**0.50498**	**47.79813**	**0.97163**	**1.00798**
%RSD	0.15081	0.21524	0.02589	0.06947	0.00041	0.01411	0.06844	0.13698	0.52545

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	51.44998	1.03442	4.71012	0.93991	0.94701	4.89844	0.48972	0.94616	0.94147
#2	51.40073	1.03045	4.73693	0.93234	0.97000	4.87012	0.48523	0.97733	0.97545

Mean	**51.42535**	**1.03243**	**4.72353**	**0.93612**	**0.95851**	**4.88428**	**0.48747**	**0.96175**	**0.95846**
%RSD	0.06771	0.27134	0.40131	0.57183	1.69610	0.40994	0.65092	2.29186	2.50698

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	4.60693	0.97458	0.50605	0.46752	0.52211	4.86798	0.47823	0.94605	0.97196
#2	4.61203	0.98213	0.50602	0.46873	0.52628	4.88015	0.47910	0.94990	0.97268
Mean	**4.60948**	**0.97835**	**0.50603**	**0.46813**	**0.52420**	**4.87406**	**0.47866**	**0.94797**	**0.97232**
%RSD	0.07822	0.54547	0.00343	0.18268	0.56325	0.17660	0.12903	0.28715	0.05213

	Pb	**Se**
	calc	calc
#1	0.94465	0.94303
#2	0.95746	0.97608
Mean	**0.95105**	**0.95955**
%RSD	0.95273	2.43518

Method : Paragon2 File : 130925A Printed : 9/25/2013 15:20:41
SampleId1 : CCB **SampleId2 :** **[CB]**
Analysis commenced : 9/25/2013 15:10:24
Dilution ratio : 1.00000 to 1.00000 Tray : Position : STD2

Final concentrations

	Ag	**Al**	**As**	**B**	**Ba**	**Be**	**Bi**	**Ca**	**Cd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.00015	-0.00354	-0.00567	-0.00682	-0.00108	0.00060	0.00462	0.14505	0.00019
#2	-0.00092	-0.00537	0.00066	-0.00772	-0.00112	0.00060	0.00081	0.13812	-0.00044
Mean	**-0.00054**	**-0.00446**	**-0.00251**	**-0.00727**	**-0.00110**	**0.00060**	**0.00272**	**0.14158**	**-0.00013**
%RSD	101.31977	29.13555	178.68015	8.75838	2.75730	0.06598	99.15540	3.46097	354.50881

	Co	**Cr**	**Cu**	**Fe**	**K**	**Li**	**Mg**	**Mn**	**Mo**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.00020	0.00042	-0.00216	0.00484	0.01495	-0.00245	0.04744	0.00006	-0.00093
#2	-0.00096	-0.00008	-0.00216	0.00176	0.00624	-0.00248	0.04285	0.00006	0.00080
Mean	**-0.00038**	**0.00017**	**-0.00216**	**0.00330**	**0.01060**	**-0.00247**	**0.04514**	**0.00006**	**-0.00006**
%RSD	216.26156	212.37598	0.09964	66.00137	58.17435	0.92855	7.18826	0.00000	1941.16934

	Na	**Ni**	**P**	**Pb I**	**Pb II**	**S**	**Sb**	**Se I**	**Se II**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	0.08040	-0.00107	-0.00372	0.00277	-0.00179	-0.00228	-0.00092	-0.01061	0.00410
#2	0.07860	-0.00301	-0.00216	-0.00274	0.00212	-0.02342	-0.00091	-0.00713	0.00196
Mean	**0.07950**	**-0.00204**	**-0.00294**	**0.00001**	**0.00017**	**-0.01285**	**-0.00092**	**-0.00887**	**0.00303**
%RSD	1.59394	67.18490	37.69080	28980.63745	1672.41414	116.28033	0.87191	27.71843	49.89361

	Si	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**Zn**	**Zr**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
#1	-0.02245	-0.00539	0.00040	-0.00128	0.00205	-0.01502	0.00008	0.00241	0.00187
#2	-0.02260	0.01150	0.00033	-0.00150	-0.00209	-0.02584	-0.00025	0.00164	0.00175
Mean	**-0.02253**	**0.00305**	**0.00036**	**-0.00139**	**-0.00002**	**-0.02043**	**-0.00008**	**0.00203**	**0.00181**

%RSD	0.47594	391.10757	14.23083	11.26386	12401.99851	37.43877	270.03980	26.60122	4.68536

	Pb	**Se**
	calc	calc
#1	-0.00027	-0.00080
#2	0.00050	-0.00107
Mean	**0.00011**	**-0.00093**
%RSD	479.38440	20.28942

Header Information for Analytical Sequence 13I21o00

Instrument: Agilent ICPMS Model 7700X; Serial No. JP09400112
Software Revision: B.01.01
Date of Analysis: 09/21/2013
Analyst: Ross Miller

Calibration Standards

High Calibration Standard: ST100324-6 (expires 2/28/2015)
This standard contains the following elements at the listed concentrations (ng/ml).

100000	50000	10000	5000	2000	1000	500	200	100	50	30	10	2
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

1/10,1/100, and 1/1000 dilutions of the High Calibration Standard are prepared daily to provide additional calibration standards.

ICV

The ICV is prepared by diluting 1ml of the 2nd Source intermediate (ST121126-2, expires 12/18/2013) to 5ml giving the following concentrations (ng/ml).

20000	10000	2000	1000	400	200	100	40	20	10	6	2	0.4
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

CRI1

The RL1 is prepared by diluting 0.05ml of the Reporting Limit Verification Spike Solution (ST100324-9 expires 2/28/2015) to 50ml giving the following concentrations (ng/ml).

100	50	10	5	2	1	0.5	0.2	0.1	0.05	0.03	0.02	0.01
Na	Ca	Mg	Al	Zn	B	Cr	Mn	V	Pb	Sb	Th	U
	K		Fe	Ti	Cu	Ni		Co	Be	Cd	Tl	Ag
					Li	Sn		As		Y		
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

CRI2

The RL2 is prepared by diluting 0.1ml of the Reporting Limit Verification Spike Solution (ST100324-9 expires 2/28/2015) to 50ml giving the following concentrations (ng/ml).

200	100	20	10	4	2	1	0.4	0.2	0.1	0.06	0.04	0.02
Na	Ca	Mg	Al	Zn	B	Cr	Mn	V	Pb	Sb	Th	U
	K		Fe	Ti	Cu	Ni		Co	Be	Cd	Tl	Ag
					Li	Sn		As		Y		
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

ICSA

The ICSA is prepared by diluting 0.5ml of ICSA intermediate (ST121206-1, expires 01/01/14) to a final volume of 50ml giving the following concentrations (ng/ml).

42.5×10^6	30000	25000	20000	10000	200
Cl	Ca	Fe	C	Al	Mo
		Na		K	Ti
				Mg	
				P	
				S	

ICSAB

The ICSAB is prepared by diluting 0.5ml of ICSA intermediate (ST121206-1, expires 01/01/14) and 5ml of High Calibration Standard: ST100324-6 (expires 2/28/2015) to a final volume of 50ml. The ICSAB contains the following elements at the listed concentrations (ng/ml).

$42.5X10^6$	35000	25500	20000	15000	11000	10500	10000	400	210
Cl	Ca	Fe	C	K	Mg	Al	P	Ti	Mo
	Na						S		

200	100	50	20	10	5	3	1	0.2
Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	Cu	Ni		Co	Be	Cd	U	
	Li	Sn		As		Y	Ag	
				Se		La		
				Ba		Ce		
				Sr		Pr		
						Nd		

CCV

The CCV is prepared by diluting 5ml of the High Calibration Standard: ST100324-6 (expires 2/28/2015) to a final volume of 50ml. The CCV contains the following elements at the listed concentrations (ng/ml).

10000	5000	1000	500	200	100	50	20	10	5	3	1	0.2
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

Linear Dynamic Range Standards

LDR-Ca,Na,K

The LDR-Ca,Na,K standard is prepared by diluting 1ml of the High Calibration Standard Intermediate Mix (ST100324-5, expires 2/28/2015) to a final volume of 10ml. The LDR-Ca,Na,K standard contains the following elements at the listed concentrations (ng/ml).

100000	50000	20000	10000	5000	2000	1000	500	300	100	20
Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	Al	Ti	Cu	Ni		Co	Be	Cd	U	
			Li	Sn		As		Y	Ag	
						Se		La		
						Mo		Ce		
						Ba		Pr		
						Sr		Nd		

1000 Na

The 1000 Na standard is prepared by diluting 1ml of the 10000mg/L Na stock solution (ST100301-26, expires 2/28/2015) to a final volume of 10ml. The 1000 Na standard contains Na at 1000000 ng/ml.

500 Ca

The 500 Ca standard is prepared by diluting 0.5ml of the 10000mg/L Ca stock solution (ST100301-9, expires 2/28/2015) to a final volume of 10ml. The 500 Ca standard contains Ca at 500000 ng/ml.

500 K

The 500 K standard is prepared by diluting 0.5ml of the 10000mg/L K stock solution (ST100301-22, expires 2/28/2015) to a final volume of 10ml. The 500 K standard contains K at 500000 ng/ml.

Linear Dynamic Range

The instrument Linear Dynamic Range (LDR) is determined at least every 6 months. The current LDR was determined on 03/13/2013. The instrument LDR is given below (ng/ml).

1000000	500000	100000	50000	20000	10000	5000	2000	1000	500	300	100	20
Na	Ca	Mg	Fe	Zn	B	Cr	Mn	V	Pb	Sb	Th	Tl
	K		Al	Ti	Cu	Ni		Co	Be	Cd	U	
					Li	Sn		As		Y	Ag	
								Se		La		
								Mo		Ce		
								Ba		Pr		
								Sr		Nd		

ICB/CCB and all diluent

1% HNO_3, 1%HCl in double deionized water

HNO_3 Lot No. 1111120
HCl Lot No. 0000018301

Internal Standards

The internal standard intermediate contains 2 PPM each of Ga, Ge and Pt; 1 PPM each of In and Rh and 0.5 PPM of Bi. This intermediate is added to all standards and samples in the same proportion of 1 on top of 100. Most often this is done by adding 0.05ml of internal standard intermediate on top of 5ml of sample or standard. The final concentration of internal standard added to the standards or samples is about 20ppb each of Ga, Ge and Pt; 10ppb each of In and Rh; and 5ppb of Bi.

Pipet ID Numbers

1.0 to 5.0 ml -- M-66
0.1 to 1.0ml -- M-60
0.01 to 0.1ml -- M-56
0.5ml -- M-14

Dilutions

2X dilutions made by diluting 5ml of sample to 10ml final volume
5X dilutions made by diluting 1ml of sample to 5ml final volume
10X dilutions made by diluting 1ml of sample to 10ml final volume
50X dilutions made by diluting 0.1ml of sample to 5ml final volume
100X dilutions made by diluting 0.1ml of sample to 10ml final volume
200X dilutions made by diluting 0.05ml of sample to 10ml final volume
500X dilutions made by diluting 0.02ml of sample to 10ml final volume

Analytical Spikes

None in this sequence.

Daily Maintenance Items

1. Check / change pump tubing
2. Check / clean drain containers
3. Tune instrument per manufacturer's procedures
4. Perform resolution / mass calibration / stability test and print QC tune report

Monthly Maintenance Items

1. Check / clean torch and cones
2. Check / clean nebulizer and spray chamber
3. Check / fill water recirculating reservoir
4. Check / fill vacuum pump oil

Additional Comments

No additional comments.

QC Tune Report

Data File: C:\ICPMH\1\7500\QCTUNE.D
Date Acquired: 21 Sep 2013 10:57:58 am
Operator:
Misc Info:
Vial Number: 0
Current Method: C:\ICPMH\1\METHODS\2008TUNE.m

Minimum Response(CPS)

Element	Actual	Required	Flag

RSD (%)

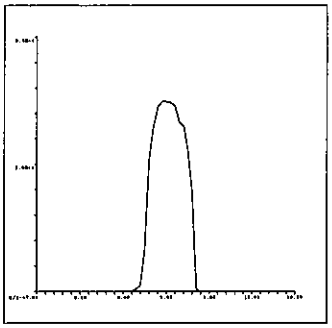
Element	Actual	Required	Flag
9 Be	1.84	5.00	
24 Mg	0.89	5.00	
25 Mg	1.98	5.00	
26 Mg	2.54	5.00	
59 Co	0.88	5.00	
115 In	0.82	5.00	
206 Pb	1.08	5.00	
207 Pb	1.59	5.00	
208 Pb	1.31	5.00	

Ion Ratio

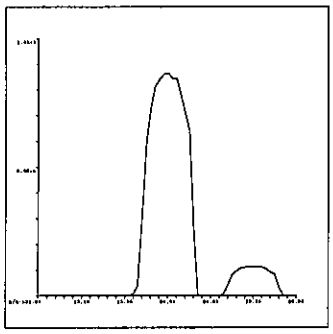
Element	Actual	Required	Flag

Maximum Bkg. Count(CPS)

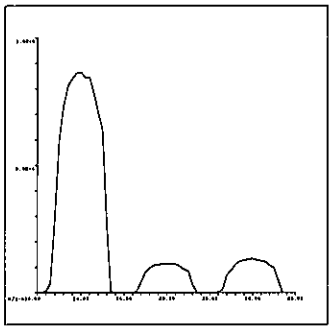
Element	Actual	Required	Flag



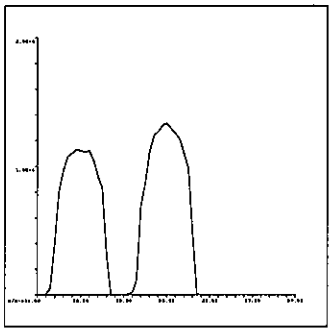
9 Be
Mass Calib.
Actual: 9.00
Required: 8.90-9.10
Flag:
Peak Width
Actual: 0.55
Required: 0.80
Flag:



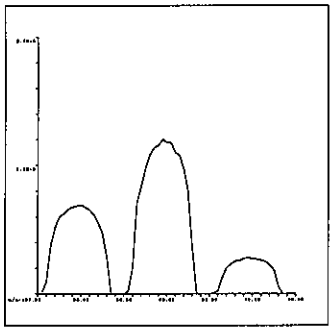
24 Mg
Mass Calib.
Actual: 24.00
Required: 23.90-24.10
Flag:
Peak Width
Actual: 0.60
Required: 0.80
Flag:



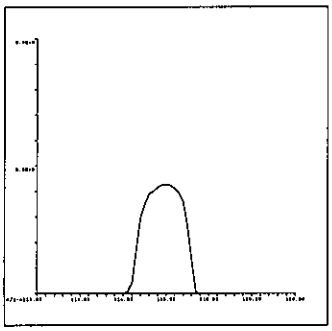
25 Mg
Mass Calib.
Actual: 25.00
Required: 24.90-25.10
Flag:
Peak Width
Actual: 0.60
Required: 0.80
Flag:



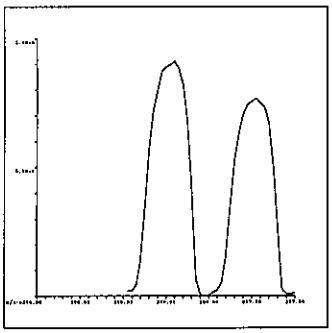
26 Mg
Mass Calib.
Actual: 26.00
Required: 25.90-26.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:



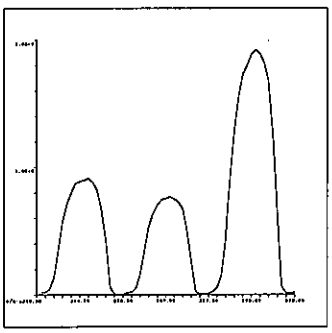
59 Co
Mass Calib.
Actual: 58.95
Required: 58.90-59.10
Flag:
Peak Width
Actual: 0.70
Required: 0.80
Flag:



115 In
Mass Calib.
Actual: 115.00
Required: 114.90-115.10
Flag:
Peak Width
Actual: 0.70
Required: 0.80
Flag:

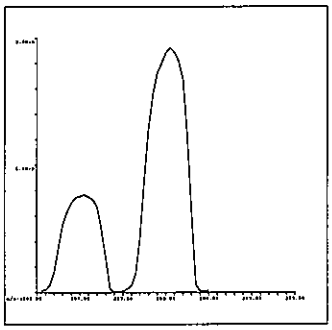


206 Pb
Mass Calib.
Actual: 206.05
Required: 205.90-206.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:



207 Pb
Mass Calib.
Actual: 207.05
Required: 206.90-207.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:

C:\ICPMH\1\7500\QCTUNE.D



208 Pb
Mass Calib.
Actual: 208.05
Required: 207.90-208.10
Flag:
Peak Width
Actual: 0.65
Required: 0.80
Flag:

QC Tune Result:Pass

Batch Summary Report

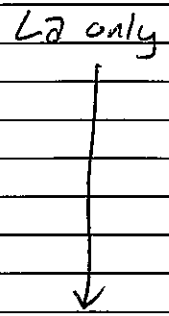
Batch Folder: C:¥ICPMH¥1¥DATA¥13I21o00.B¥
Analysis File: 13I21o00.batch.xml
Tune Step: #1 nogas.u
#2 hehe.u

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
1		9/21/2013 11:31:20 AM	001SMPL_13I21I00.D	blank	Sample		1.0000
2		9/21/2013 11:34:50 AM	002CALB_13I21I00.D	blank	CalBlk	1	1.0000
3		9/21/2013 11:38:20 AM	003CALB_13I21I00.D	blank	CalBlk	1	1.0000
4		9/21/2013 11:41:50 AM	004CALS_13I21I00.D	H/1000	CalStd	2	1.0000
5		9/21/2013 11:45:20 AM	005CALS_13I21I00.D	H/100	CalStd	3	1.0000
6		9/21/2013 11:48:49 AM	006CALS_13I21I00.D	H/10	CalStd	4	1.0000
7		9/21/2013 11:52:15 AM	007CALS_13I21I00.D	HIGH	CalStd	5	1.0000
8		9/21/2013 12:00:00 PM	008SMPL_13I21I00.D	ICV	6-ICV		1.0000
9		9/21/2013 12:07:50 PM	009SMPL_13I21I00.D	ICB	6-CCB		1.0000
10		9/21/2013 12:12:07 PM	010SMPL_13I21I00.D	ZZZZZZ	Sample		1.0000
11		9/21/2013 12:15:39 PM	011SMPL_13I21I00.D	ICSA	Sample		1.0000
12		9/21/2013 12:19:09 PM	012SMPL_13I21I00.D	ICSAB	Sample		1.0000
13		9/21/2013 12:26:58 PM	013SMPL_13I21I00.D	ZZZZZZ	Sample		1.0000
14		9/21/2013 12:39:59 PM	014SMPL_13I21I00.D	IP130920-2MB 10X	6-CCB		1.0000
15		9/21/2013 12:43:29 PM	015SMPL_13I21I00.D	IM130920-1LCS 10X	6-LCS		1.0000
16		9/21/2013 12:46:56 PM	016SMPL_13I21I00.D No La,Ce,Pr,Nd	1308501-1 10X	Sample		1.0000
17		9/21/2013 12:50:26 PM	017SMPL_13I21I00.D	CCV	6-CCV		1.0000
18		9/21/2013 12:53:55 PM	018SMPL_13I21I00.D	CCB	6-CCB		1.0000
19		9/21/2013 12:57:27 PM	019SMPL_13I21I00.D	IP130920-1MB 10X	6-CCB		1.0000
20		9/21/2013 1:00:56 PM	020SMPL_13I21I00.D	IP130920-2LCS 10X	6-LCS		1.0000
21		9/21/2013 1:04:24 PM	021SMPL_13I21I00.D	1309158-1 10X	Sample		1.0000
22		9/21/2013 1:07:54 PM	022SMPL_13I21I00.D	1309217-2 10X	Sample		1.0000
23		9/21/2013 1:11:23 PM	023SMPL_13I21I00.D	1309027-1 10X	Sample		1.0000
24		9/21/2013 1:14:53 PM	024SMPL_13I21I00.D	1309234-1 10X	Sample		1.0000
25		9/21/2013 1:18:23 PM	025SMPL_13I21I00.D	1309196-1 10X	Sample		1.0000
26		9/21/2013 1:21:53 PM	026SMPL_13I21I00.D	1309236-1 10X	Sample		1.0000
27		9/21/2013 1:25:23 PM	027SMPL_13I21I00.D	CCV	6-CCV		1.0000

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
28		9/21/2013 1:28:51 PM	028SMPL_13I21I00.D	CCB	6-CCB		1.0000
29		9/21/2013 1:44:05 PM	001SMPL_13I21n01.D	EX130919-20MB 10X	6-CCB		1.0000
30		9/21/2013 1:47:07 PM	002SMPL_13I21n01.D	EX130919-20LCS 10X	6-LCS		1.0000
31		9/21/2013 1:50:12 PM	003SMPL_13I21n01.D	1309185-4 10X	Sample		1.0000
32		9/21/2013 1:53:15 PM	004SMPL_13I21n01.D	1309185-4D 10X	Sample		1.0000
33		9/21/2013 1:56:18 PM	005SMPL_13I21n01.D	1309185-4L 50X	Sample		1.0000
34		9/21/2013 1:59:20 PM	006SMPL_13I21n01.D	1309185-4MS 10X	Sample		1.0000
35		9/21/2013 2:02:23 PM	007SMPL_13I21n01.D	1309185-4MSD 10X	Sample		1.0000
36		9/21/2013 2:05:25 PM	008SMPL_13I21n01.D	CCV	6-CCV		1.0000
37		9/21/2013 2:08:28 PM	009SMPL_13I21n01.D	CCB	6-CCB		1.0000
38		9/21/2013 2:24:53 PM	001SMPL.D	CCV	6-CCV		1.0000
39		9/21/2013 2:27:04 PM	002SMPL.D	CCB	6-CCB		1.0000
40		9/21/2013 2:29:20 PM	003SMPL.D	1309242-1 50X	Sample		1.0000
41		9/21/2013 2:31:30 PM	004SMPL.D	1309242-2 50X	Sample		1.0000
42		9/21/2013 2:33:40 PM	005SMPL.D	1309242-3 50X	Sample		1.0000
43		9/21/2013 2:35:49 PM	006SMPL.D	1309242-4 50X	Sample		1.0000
44		9/21/2013 2:38:00 PM	007SMPL.D	1309242-5 50X	Sample		1.0000
45		9/21/2013 2:40:11 PM	008SMPL.D	1309242-6 50X	Sample		1.0000
46		9/21/2013 2:42:22 PM	009SMPL.D	1309242-7 50X	Sample		1.0000
47		9/21/2013 2:44:32 PM	010SMPL.D	1309242-8 50X	Sample		1.0000
48		9/21/2013 2:48:23 PM	011SMPL.D	ZZZZZZ	Sample		1.0000
49		9/21/2013 2:52:15 PM	012SMPL.D	ZZZZZZ	Sample		1.0000
50		9/21/2013 2:56:05 PM	013SMPL.D	CCV	6-CCV		1.0000
51		9/21/2013 2:59:56 PM	014SMPL.D	CCB	6-CCB		1.0000
52		9/21/2013 3:02:03 PM	015SMPL.D	CCV	6-CCV		1.0000
53		9/21/2013 3:04:13 PM	016SMPL.D	CCB	6-CCB		1.0000
54		9/21/2013 3:06:24 PM	017SMPL.D	1308513-8 2X	Sample		1.0000
55		9/21/2013 3:08:35 PM	018SMPL.D	1308513-13 5X	Sample		1.0000
56		9/21/2013 3:10:45 PM	019SMPL.D	1308513-19 2X	Sample		1.0000
57		9/21/2013 3:12:56 PM	020SMPL.D	1308513-33 5X	Sample		1.0000
58		9/21/2013 3:15:06 PM	021SMPL.D	1308513-34 5X	Sample		1.0000
59		9/21/2013 3:17:16 PM	022SMPL.D	1308513-35 5X	Sample		1.0000
60		9/21/2013 3:19:26 PM	023SMPL.D	ZZZZZZ	Sample		1.0000

As, Se only

	Rjct	Acq. Date-Time	Data File	Sample Name	Type	Level	Dilution
61		9/21/2013 3:21:38 PM	024SMPL.D	ZZZZZZ	Sample		1.0000
62		9/21/2013 3:23:48 PM	025SMPL.D	ZZZZZZ	Sample		1.0000
63		9/21/2013 3:25:57 PM	026SMPL.D	ZZZZZZ	Sample		1.0000
64		9/21/2013 3:28:07 PM	027SMPL.D	CCV	6-CCV		1.0000
65		9/21/2013 3:30:17 PM	028SMPL.D	CCB	6-CCB		1.0000
66		9/21/2013 3:32:30 PM	029SMPL.D	ZZZZZZ	Sample		1.0000
67		9/21/2013 3:36:22 PM	030SMPL.D	ZZZZZZ	Sample		1.0000
68		9/21/2013 3:40:14 PM	031SMPL.D	ZZZZZZ	Sample		1.0000
69		9/21/2013 3:44:07 PM	032SMPL.D	ZZZZZZ	Sample		1.0000
70		9/21/2013 3:47:57 PM	033SMPL.D	ZZZZZZ	Sample		1.0000
71		9/21/2013 3:51:49 PM	034SMPL.D	ZZZZZZ	Sample		1.0000
72		9/21/2013 3:55:39 PM	035SMPL.D	CCV	6-CCV		1.0000
73		9/21/2013 3:59:29 PM	036SMPL.D	CCB	6-CCB		1.0000
74		9/21/2013 4:01:40 PM	037SMPL.D	1309035-1 10000X	Sample		1.0000
75		9/21/2013 4:03:51 PM	038SMPL.D	1309035-2 10000X	Sample		1.0000
76		9/21/2013 4:06:00 PM	039SMPL.D	1309035-3 10000X	Sample		1.0000
77		9/21/2013 4:08:09 PM	040SMPL.D	1309035-4 10000X	Sample		1.0000
78		9/21/2013 4:10:19 PM	041SMPL.D	1309035-5 10000X	Sample		1.0000
79		9/21/2013 4:12:29 PM	042SMPL.D	1309035-6 10000X	Sample		1.0000
80		9/21/2013 4:14:39 PM	043SMPL.D	1309035-7 10000X	Sample		1.0000
81		9/21/2013 4:16:49 PM	044SMPL.D	1309035-8 10000X	Sample		1.0000
82		9/21/2013 4:18:59 PM	045SMPL.D	ZZZZZZ	Sample		1.0000
83		9/21/2013 4:21:09 PM	046SMPL.D	ZZZZZZ	Sample		1.0000
84		9/21/2013 4:24:59 PM	047SMPL.D	CCV	6-CCV		1.0000
85		9/21/2013 4:27:10 PM	048SMPL.D	CCB	6-CCB		1.0000



Analyte Table

		7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank		1274.72		66.00		593.35		10813.88		26.67
2	blank	-0.002	1257.39	-0.005	36.67	0.019	535.58	4.350	11284.33	1.094	26.67
3	blank	0.000	1262.73	0.000	56.00	0.000	478.90	0.000	10924.04	0.000	6.67
4	H/1000	1.040	13985.15	0.049	285.34	1.785	5687.68	95.967	23507.52	12.813	263.35
5	H/100	10.137	130813.05	0.469	2341.52	10.590	32800.55	1000.810	139895.32	92.524	1916.86
6	H/10	104.838	1342948.87	4.961	24241.85	95.857	295335.62	10110.696	1330722.64	986.676	20817.00
7	HIGH	999.515	12417652.67	50.004	236643.27	1000.408	3090904.39	99988.926	12683440.23	10001.404	204970.38
8	ICV	199.203	2569005.67	9.721	47786.27	195.665	603722.54	20404.373	2660382.77	1979.094	41552.42
9	ICB	0.287	4429.28	-0.001	51.33	4.279	11740.81	5.800	11217.64	-0.351	0.00
10	ZZZZZZ	0.222	3733.11	-0.002	47.33	2.628	7521.75	6.528	11607.82	-0.175	3.33
11	ICSA	0.219	4203.22	-0.001	56.00	1.617	5595.44	25514.344	3282112.14	9276.120	192217.33
12	ICSAB	103.080	1315066.92	4.927	23980.80	94.349	292481.15	34465.745	4574622.43	10050.469	215144.05
13	ZZZZZZ	0.052	1913.46	-0.007	28.00	1.331	4215.02	6.295	11841.33	2.260	50.00
14	IP130920-2MB ...	0.117	2638.90	-0.004	39.33	0.472	1765.67	8.132	11891.42	0.706	20.00
15	IM130920-1LCS...	98.276	1278066.71	4.695	23294.51	88.432	274858.17	965.280	140276.97	896.540	19205.02
16	1308501-1 10X	0.328	5926.40	0.009	114.00	3.444	11486.24	5153.125	706744.03	1290.710	28121.27
17	CCV	102.584	1320601.42	4.834	23741.16	94.308	291086.42	10217.335	1352674.98	983.006	20853.71
18	CCB	0.242	4030.51	-0.003	43.33	3.202	9205.95	6.242	11684.54	0.525	16.67
19	IP130920-1MB ...	0.157	3019.63	-0.004	40.67	1.448	4373.96	6.786	11497.88	0.180	10.00
20	IP130920-2LCS...	101.866	1311974.67	5.042	24767.92	97.796	298584.10	1029.427	149945.95	965.641	20850.38
21	1309158-1 10X	1.008	14447.52	-0.005	37.33	4.183	13562.18	11454.502	1473180.29	63.754	1323.45
22	1309217-2 10X	1.387	18937.29	-0.006	32.67	2.848	9287.07	12132.136	1602405.39	11.925	260.02
23	1309027-1 10X	7.445	94610.25	-0.008	26.00	24.188	75039.10	20302.335	2625338.66	3692.769	76872.90
24	1309234-1 10X	4.197	55142.24	-0.009	18.67	17.525	54838.77	33303.478	4424684.52	112.149	2410.28
25	1309196-1 10X	0.749	10755.45	-0.006	34.67	2.207	7282.77	2370.547	313211.19	1428.178	29359.97
26	1309236-1 10X	2.488	32578.51	-0.008	22.67	25.754	78858.51	21767.112	2854481.93	29.763	636.71
27	CCV	102.244	1304035.79	4.838	23548.21	92.346	288484.70	10042.675	1351850.14	963.583	20793.61
28	CCB	0.199	3495.72	-0.005	35.33	3.152	8955.80	8.216	11824.73	0.361	13.33
29	EX130919-20M...			-0.007	26.00						
30	EX130919-20LC...			4.740	23328.11						
31	1309185-4 10X			-0.007	26.00						

Analyte Table

		7 Li [1]		9 Be [1]		11 B [1]		23 Na [2]		26 Mg [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1309185-4D 10X			-0.007	31.33						
33	1309185-4L 50X			-0.009	18.67						
34	1309185-4MS 10X			4.625	22179.20						
35	1309185-4MSD ...			4.592	22320.74						
36	CCV			4.778	23114.48						
37	CCB			-0.004	36.67						
38	CCV							10182.175	1355491.49		
39	CCB							17.798	13479.27		
40	1309242-1 50X							474.924	77306.48		
41	1309242-2 50X							443.168	73144.47		
42	1309242-3 50X							283.080	50577.84		
43	1309242-4 50X							316.843	56366.24		
44	1309242-5 50X							104.361	27230.06		
45	1309242-6 50X							1763.312	253049.24		
46	1309242-7 50X							2137.273	302135.61		
47	1309242-8 50X							1048.063	154142.73		
48	ZZZZZZ							9.069	12318.42		
49	ZZZZZZ							15.476	12805.44		
50	CCV							10483.731	1417616.28		
51	CCB							8.045	12268.37		
52	CCV										
53	CCB										
54	1308513-8 2X										
55	1308513-13 5X										
56	1308513-19 2X										
57	1308513-33 5X										
58	1308513-34 5X										
59	1308513-35 5X										
60	ZZZZZZ										
61	ZZZZZZ										
62	ZZZZZZ										

Analyte Table

		27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank		26.67		3753.94		2.39		3.33		47.00
2	blank	0.117	13.33	8.328	3990.67	2.103	2.84	-0.119	0.00	0.005	49.33
3	blank	0.000	6.67	0.000	3830.60	0.000	-2.82	0.000	3.33	0.000	44.67
4	H/1000	7.901	496.70	52.679	5491.14	66.298	185.17	1.662	56.67	0.100	173.67
5	H/100	52.959	3363.82	482.873	17563.28	470.496	1373.57	18.087	596.71	0.996	1347.06
6	H/10	505.517	32773.11	4942.050	143657.69	4899.912	14651.05	195.309	6528.20	9.548	12751.92
7	HIGH	4999.416	323175.74	50005.964	1374247.90	50010.288	145325.94	2000.489	66672.34	100.045	129347.61
8	ICV	1007.872	65123.89	9868.649	281166.06	9587.878	28523.00	393.695	13122.48	19.441	25784.62
9	ICB	0.593	40.00	12.457	4010.67	1.518	1.27	0.121	6.67	-0.005	37.67
10	ZZZZZZ	0.301	23.33	5.309	3940.66	4.060	8.15	-0.009	3.33	-0.001	43.67
11	ICSA	9246.632	602313.13	10013.811	281641.47	29871.165	87793.60	174.174	5854.64	0.036	96.33
12	ICSAB	9767.484	641566.54	14810.509	428176.24	34428.527	104489.62	384.001	13015.67	9.837	13330.04
13	ZZZZZZ	1.807	110.00	7.525	4084.04	8.472	20.18	0.331	13.33	-0.016	26.67
14	IP130920-2MB ...	0.471	33.33	12.733	4164.04	2.832	4.67	0.106	6.67	-0.012	30.00
15	IM130920-1LCS...	444.955	28131.26	467.698	17760.15	900.287	2731.69	194.776	6348.19	8.967	12159.81
16	1308501-1 10X	145.215	9788.79	10746.445	317354.19	16133.668	49824.45	4.577	163.34	0.276	431.68
17	CCV	506.940	32960.25	4950.660	144733.92	4747.232	14276.83	200.535	6728.31	9.574	12860.67
18	CCB	0.672	43.33	3.344	3933.96	6.139	13.52	0.589	20.00	-0.016	25.67
19	IP130920-1MB ...	0.235	20.00	3.194	3847.29	5.312	11.34	-0.119	0.00	-0.007	35.67
20	IP130920-2LCS...	487.859	31554.07	513.623	19225.05	1010.109	3088.39	195.459	6518.27	9.659	13199.60
21	1309158-1 10X	1.059	76.67	91.891	6745.02	971.711	2836.44	0.183	10.00	-0.006	41.67
22	1309217-2 10X	1.162	83.33	24.360	5017.66	349.241	1048.19	0.364	16.67	0.012	67.00
23	1309027-1 10X	1.821	126.67	437.558	16428.84	9665.058	28516.21	-0.119	0.00	0.031	89.67
24	1309234-1 10X	5.816	390.14	199.217	10080.21	467.941	1418.54	0.085	6.67	0.037	100.34
25	1309196-1 10X	2.454	166.67	182.469	9212.98	6254.183	18219.91	0.178	10.00	0.078	150.00
26	1309236-1 10X	1.797	123.34	108.462	7371.94	155.515	463.72	-0.119	0.00	-0.014	31.67
27	CCV	511.862	32772.94	4880.248	145104.46	4859.916	14858.08	197.488	6518.24	9.512	12990.10
28	CCB	0.170	16.67	4.681	3930.66	4.457	8.98	-0.119	0.00	-0.009	34.33
29	EX130919-20M...									-0.007	35.67
30	EX130919-20LC...									9.482	12691.26
31	1309185-4 10X									-0.024	18.00

Analyte Table

		27 Al [2]		39 K [2]		44 Ca [2]		49 Ti [2]		51 V [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1309185-4D 10X									-0.013	32.33
33	1309185-4L 50X									-0.013	31.67
34	1309185-4MS 10X									8.887	11777.24
35	1309185-4MSD ...									8.977	11820.27
36	CCV									9.576	12756.96
37	CCB									-0.016	25.00
38	CCV										
39	CCB										
40	1309242-1 50X										
41	1309242-2 50X										
42	1309242-3 50X										
43	1309242-4 50X										
44	1309242-5 50X										
45	1309242-6 50X										
46	1309242-7 50X										
47	1309242-8 50X										
48	ZZZZZZ										
49	ZZZZZZ										
50	CCV										
51	CCB										
52	CCV										
53	CCB										
54	1308513-8 2X										
55	1308513-13 5X										
56	1308513-19 2X										
57	1308513-33 5X										
58	1308513-34 5X										
59	1308513-35 5X										
60	ZZZZZZ										
61	ZZZZZZ										
62	ZZZZZZ										

Analyte Table

		52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank		995.60		128.89		5607.87		21.11		371.12
2	blank	0.046	1064.50	-0.067	102.23	-0.006	5701.24	0.006	37.78	0.058	354.45
3	blank	0.000	1008.94	0.000	168.89	0.000	5787.93	0.000	20.00	0.000	314.45
4	H/1000	0.505	1899.03	0.197	384.45	5.760	15361.08	0.113	374.45	0.595	816.70
5	H/100	5.029	9609.60	2.013	2346.86	51.659	91598.62	1.006	3272.60	5.184	4681.85
6	H/10	48.240	84347.92	19.587	21654.39	517.099	877066.52	9.880	32639.07	49.827	42875.85
7	HIGH	500.176	839504.78	200.041	213174.96	4998.273	8183385.09	100.012	320830.82	500.015	414963.36
8	ICV	96.976	167604.65	39.064	42780.01	1019.695	1714926.43	20.042	65873.47	99.698	85023.76
9	ICB	0.002	977.82	-0.043	122.23	-0.002	5594.60	0.014	57.78	0.019	318.90
10	ZZZZZZ	0.028	1043.38	-0.050	118.89	-0.051	5667.97	0.012	54.45	-0.050	275.56
11	ICSA	0.280	1587.87	1.438	1735.67	23499.535	38875057.75	0.011	56.67	-0.031	322.23
12	ICSAB	49.310	87478.37	21.688	24314.76	23561.128	40266241.90	9.948	33352.85	50.029	43693.71
13	ZZZZZZ	-0.028	981.16	-0.028	143.34	11.090	22753.27	0.012	56.67	0.019	334.45
14	IP130920-2MB ...	0.005	1017.83	-0.081	90.00	0.177	6064.72	0.005	34.44	-0.099	240.01
15	IM130920-1LCS...	45.198	80321.59	18.497	20773.23	482.045	830712.75	9.143	30669.84	47.000	41091.44
16	1308501-1 10X	0.308	1719.01	69.182	78482.02	207.026	366664.47	0.371	1288.96	0.613	905.60
17	CCV	48.542	85370.02	19.543	21727.78	515.277	879123.34	9.898	32889.60	49.719	43035.19
18	CCB	0.037	1067.83	-0.037	133.34	0.228	6148.10	0.007	41.11	-0.057	272.23
19	IP130920-1MB ...	0.049	1063.38	-0.072	96.67	0.335	6171.45	0.006	36.66	-0.113	224.45
20	IP130920-2LCS...	48.994	87648.16	19.644	22222.96	509.229	884009.81	9.942	33608.93	50.501	44465.77
21	1309158-1 10X	-0.029	1058.94	1.197	1467.87	1.449	8739.35	0.009	50.00	0.113	441.12
22	1309217-2 10X	-0.084	992.27	0.476	714.47	2.546	10837.38	0.012	63.33	0.010	364.46
23	1309027-1 10X	-0.042	1047.83	0.341	555.57	7.534	18938.28	0.042	158.89	0.311	610.02
24	1309234-1 10X	-0.008	1135.61	1.492	1853.47	28.677	55649.32	0.022	97.78	0.016	373.34
25	1309196-1 10X	0.055	1194.51	0.033	220.01	1.730	9172.96	0.008	48.89	0.022	362.23
26	1309236-1 10X	-0.070	1012.27	0.409	637.80	5.387	15574.70	0.008	48.89	-0.004	351.12
27	CCV	47.934	85718.34	19.058	21554.23	508.855	882802.61	9.786	33063.41	49.452	43525.35
28	CCB	0.048	1075.61	-0.083	87.78	0.150	5984.64	0.007	38.89	-0.137	210.01
29	EX130919-20M...	-0.064	905.59					0.003	28.89	-0.149	201.11
30	EX130919-20LC...	47.628	83486.84					9.789	32409.85	48.198	41585.85
31	1309185-4 10X	-0.061	994.49					0.003	30.00	0.055	386.68

Analyte Table

		52 Cr [2]		55 Mn [2]		56 Fe [2]		59 Co [2]		60 Ni [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1309185-4D 10X	-0.004	1123.39					0.002	30.00	0.025	374.45
33	1309185-4L 50X	-0.050	987.82					0.007	44.45	-0.021	317.78
34	1309185-4MS 10X	45.485	79003.05					9.191	30119.95	46.696	39908.48
35	1309185-4MSD ...	46.421	80066.73					9.441	30741.15	47.697	40476.57
36	CCV	48.892	85271.42					10.005	32972.06	50.304	43185.63
37	CCB	-0.019	964.49					0.014	61.11	-0.129	213.34
38	CCV										
39	CCB										
40	1309242-1 50X										
41	1309242-2 50X										
42	1309242-3 50X										
43	1309242-4 50X										
44	1309242-5 50X										
45	1309242-6 50X										
46	1309242-7 50X										
47	1309242-8 50X										
48	ZZZZZZ										
49	ZZZZZZ										
50	CCV										
51	CCB										
52	CCV										
53	CCB										
54	1308513-8 2X										
55	1308513-13 5X										
56	1308513-19 2X										
57	1308513-33 5X										
58	1308513-34 5X										
59	1308513-35 5X										
60	ZZZZZZ										
61	ZZZZZZ										
62	ZZZZZZ										

Analyte Table

		63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank		1452.31		386.69		1.00		0.80		190.01
2	blank	0.023	1386.75	0.035	173.34	-0.006	2.33	-0.008	0.27	-0.109	170.01
3	blank	0.000	1360.08	0.000	160.01	0.000	3.33	0.000	0.40	0.000	273.35
4	H/1000	1.127	3847.17	2.769	1466.81	0.088	20.00	0.085	2.00	0.063	363.36
5	H/100	10.577	24767.76	22.161	10894.16	0.945	185.67	1.047	20.53	1.102	1476.80
6	H/10	103.029	232900.18	202.357	100113.25	9.716	1909.45	10.334	202.53	9.521	10650.68
7	HIGH	999.691	2182771.44	1999.742	959739.96	100.029	19069.80	99.966	1900.25	100.047	108660.16
8	ICV	205.052	459744.55	401.998	197755.65	19.660	3842.80	20.491	399.34	20.251	22226.43
9	ICB	0.147	1599.00	-0.161	86.67	-0.017	0.33	-0.007	0.27	-0.032	240.01
10	ZZZZZZ	0.074	1494.54	-0.228	60.00	0.004	4.00	0.008	0.53	-0.042	230.01
11	ICSA	0.048	1604.55	0.255	300.02	-0.009	2.00	-0.002	0.40	0.067	386.69
12	ICSAB	101.710	233364.58	197.971	99403.32	10.037	2002.13	10.447	207.87	9.944	11257.78
13	ZZZZZZ	-0.049	1281.18	5.108	2443.62	-0.012	1.33	0.022	0.80	-0.142	140.01
14	IP130920-2MB ...	0.028	1420.09	-0.138	100.01	-0.008	2.00	0.008	0.53	-0.039	236.68
15	IM130920-1LCS...	95.142	218477.71	186.741	93820.03	9.210	1837.78	9.327	185.73	9.859	10757.40
16	1308501-1 10X	53.697	126097.25	99.660	51017.69	1.975	404.01	1.933	39.47	49.302	55938.79
17	CCV	102.957	234065.22	202.467	100751.40	9.916	1960.46	10.369	204.40	9.236	10373.84
18	CCB	0.090	1545.65	0.134	220.01	-0.010	1.67	0.015	0.67	-0.137	140.01
19	IP130920-1MB ...	0.083	1497.88	0.021	166.68	0.010	5.00	-0.016	0.13	-0.041	236.68
20	IP130920-2LCS...	102.092	236171.59	196.945	99708.42	9.953	2001.80	10.048	201.60	10.049	11204.41
21	1309158-1 10X	0.227	1990.15	0.862	593.37	-0.009	2.00	0.026	0.93	37.562	41371.19
22	1309217-2 10X	-0.005	1523.42	0.139	250.01	0.003	4.33	0.024	0.93	11.692	13122.62
23	1309027-1 10X	0.171	1886.81	0.594	466.69	0.009	5.33	0.233	4.93	208.895	228992.22
24	1309234-1 10X	0.023	1604.55	8.734	4564.19	-0.004	3.00	0.017	0.80	12.751	14146.85
25	1309196-1 10X	2.730	7462.93	8.808	4414.12	0.026	8.67	0.089	2.13	36.206	39490.14
26	1309236-1 10X	-0.061	1393.41	1.827	1083.43	-0.011	1.67	0.017	0.80	3.680	4280.80
27	CCV	101.014	233543.51	201.542	101956.02	9.587	1926.46	9.876	198.13	10.176	11234.46
28	CCB	0.071	1494.53	-0.030	146.68	-0.010	1.67	0.053	1.33	-0.086	193.35
29	EX130919-20M...	-0.007	1336.74	-0.007	156.68	-0.015	0.67	-0.008	0.27		
30	EX130919-20LC...	99.883	226361.89	186.777	92612.54	9.205	1813.77	9.513	187.07		
31	1309185-4 10X	-0.018	1437.86	0.263	300.02	0.026	8.67	0.055	1.47		

Analyte Table

		63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1309185-4D 10X	-0.051	1408.97	0.211	283.35	0.020	7.67	0.038	1.20		
33	1309185-4L 50X	0.057	1565.65	0.091	213.34	-0.005	2.67	0.057	1.47		
34	1309185-4MS 10X	95.251	213815.14	184.187	90450.82	9.037	1763.44	9.866	192.00		
35	1309185-4MSD ...	96.978	216193.14	187.217	91319.06	9.307	1804.78	9.314	180.27		
36	CCV	103.524	233460.37	204.413	100878.47	9.811	1924.12	10.143	198.40		
37	CCB	0.049	1436.75	0.060	183.34	-0.017	0.33	0.015	0.67		
38	CCV										
39	CCB										
40	1309242-1 50X										
41	1309242-2 50X										
42	1309242-3 50X										
43	1309242-4 50X										
44	1309242-5 50X										
45	1309242-6 50X										
46	1309242-7 50X										
47	1309242-8 50X										
48	ZZZZZZ										
49	ZZZZZZ										
50	CCV										
51	CCB										
52	CCV					10.336	2023.46	10.333	201.60		
53	CCB					-0.012	1.33	-0.008	0.27		
54	1308513-8 2X					0.372	75.00	7.774	149.33		
55	1308513-13 5X					0.400	83.33	6.299	125.33		
56	1308513-19 2X					0.565	116.33	4.381	87.33		
57	1308513-33 5X					0.265	58.33	9.894	202.80		
58	1308513-34 5X					0.349	73.00	10.043	198.80		
59	1308513-35 5X					0.363	75.33	27.044	531.08		
60	ZZZZZZ					0.297	64.00	1.129	23.20		
61	ZZZZZZ					-0.002	3.00	0.008	0.53		
62	ZZZZZZ					-0.012	1.33	-0.008	0.27		

Analyte Table

		63 Cu [2]		66 Zn [2]		75 As [2]		78 Se [2]		88 Sr [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	ZZZZZZ					-0.010	1.67	0.030	0.93		
64	CCV					10.198	2014.47	10.189	200.93		
65	CCB					-0.002	3.00	0.016	0.67		
66	ZZZZZZ										
67	ZZZZZZ										
68	ZZZZZZ										
69	ZZZZZZ										
70	ZZZZZZ										
71	ZZZZZZ										
72	CCV										
73	CCB										
74	1309035-1 100...										
75	1309035-2 100...										
76	1309035-3 100...										
77	1309035-4 100...										
78	1309035-5 100...										
79	1309035-6 100...										
80	1309035-7 100...										
81	1309035-8 100...										
82	ZZZZZZ										
83	ZZZZZZ										
84	CCV										
85	CCB										

Analyte Table

		89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank		0.00		3.33		1.11		2.00		716.72
2	blank	-0.003	0.00	-0.002	5.55	0.001	2.22	0.002	1.33	0.018	680.05
3	blank	0.000	6.67	0.000	8.89	0.000	0.00	0.000	0.00	0.000	573.37
4	H/1000	0.022	60.00	0.093	191.11	0.013	50.00	0.042	28.61	0.664	4577.54
5	H/100	0.305	770.06	0.973	1980.16	0.117	447.79	0.617	426.06	5.295	33854.23
6	H/10	3.087	7879.00	9.697	20046.14	1.073	4180.61	3.079	2170.60	50.840	322565.48
7	HIGH	29.991	76262.36	100.031	200795.21	9.993	38847.73	29.989	21085.06	499.913	3179946.31
8	ICV	6.068	15438.18	19.498	40101.49	2.072	8051.05	6.046	4246.14	102.149	648965.17
9	ICB	-0.003	0.00	-0.001	6.67	0.002	5.56	0.008	4.67	0.190	1586.83
10	ZZZZZZ	-0.002	3.33	-0.002	4.44	0.002	5.56	0.001	0.67	0.172	1520.15
11	ICSA	0.002	13.33	184.103	373694.08	0.008	32.22	-0.006	-4.22	0.168	1740.19
12	ICSAB	3.043	7862.31	189.936	398262.87	1.073	4239.52	3.131	2237.01	53.007	338323.45
13	ZZZZZZ	-0.003	0.00	0.040	84.44	0.005	15.56	0.003	1.98	2.741	16379.30
14	IP130920-2MB ...	-0.003	0.00	-0.001	7.78	0.004	12.22	0.001	0.67	0.063	926.74
15	IM130920-1LCS...	2.928	7295.32	9.003	18893.54	1.041	3952.78	3.154	2168.96	51.994	332720.20
16	1308501-1 10X	0.152	410.03	2.305	4926.39	0.082	333.34	1.034	757.82	3.200	21566.06
17	CCV	3.051	7815.62	9.685	20139.56	1.052	4115.03	3.009	2129.23	51.210	325459.35
18	CCB	-0.003	0.00	-0.002	4.44	0.002	6.67	0.000	0.00	0.112	1206.77
19	IP130920-1MB ...	0.000	6.67	-0.002	4.44	0.002	6.67	0.001	0.67	0.061	906.73
20	IP130920-2LCS...	3.048	7768.94	9.559	20219.66	1.079	4197.29	3.145	2212.55	53.015	333287.81
21	1309158-1 10X	0.001	10.00	0.036	82.22	0.002	8.89	0.003	1.98	0.104	1326.78
22	1309217-2 10X	0.003	16.67	2.922	6076.81	0.000	1.11	-0.003	-1.89	0.099	1276.78
23	1309027-1 10X	0.000	6.67	0.407	840.04	0.002	7.78	0.001	0.41	0.084	1186.77
24	1309234-1 10X	0.003	16.67	0.064	144.45	0.003	10.00	0.002	1.29	0.084	1190.11
25	1309196-1 10X	0.000	6.67	0.036	82.22	0.001	2.22	0.000	-0.02	0.058	1010.08
26	1309236-1 10X	0.000	6.67	0.039	91.11	0.002	6.67	0.002	1.31	0.075	1116.76
27	CCV	3.043	7672.22	9.620	20333.15	1.073	4129.48	3.094	2155.18	50.279	323411.67
28	CCB	-0.003	0.00	0.006	20.00	0.002	7.78	0.002	1.33	0.080	1013.41
29	EX130919-20M...			-0.002	5.55	0.002	5.56	0.002	1.33	0.062	910.07
30	EX130919-20LC...			9.591	19874.79	0.961	3803.84	2.956	2115.31	51.938	327259.80
31	1309185-4 10X			0.004	17.78	0.002	8.89	0.000	-0.01	-0.020	513.37

Analyte Table

		89 Y [2]		98 Mo [2]		109 Ag [2]		111 Cd [2]		118 Sn [1]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1309185-4D 10X			0.003	15.56	0.003	10.00	0.002	1.33	-0.037	410.03
33	1309185-4L 50X			-0.003	4.44	0.002	6.67	0.002	1.33	0.482	3483.91
34	1309185-4MS 10X			9.111	18696.72	0.981	3841.65	2.978	2110.35	48.387	304284.43
35	1309185-4MSD ...			9.266	18882.47	1.015	3896.09	3.061	2124.96	48.572	304426.11
36	CCV			9.854	20319.73	1.048	4049.47	3.214	2246.53	50.886	322789.98
37	CCB			0.001	11.11	0.002	6.67	0.000	0.00	0.104	1140.10
38	CCV										
39	CCB										
40	1309242-1 50X										
41	1309242-2 50X										
42	1309242-3 50X										
43	1309242-4 50X										
44	1309242-5 50X										
45	1309242-6 50X										
46	1309242-7 50X										
47	1309242-8 50X										
48	ZZZZZZ										
49	ZZZZZZ										
50	CCV										
51	CCB										
52	CCV			9.670	19902.54						
53	CCB			0.001	11.11						
54	1308513-8 2X			0.029	67.78						
55	1308513-13 5X			11.105	23281.62						
56	1308513-19 2X			0.047	108.89						
57	1308513-33 5X			87.612	189280.71						
58	1308513-34 5X			10.671	22252.31						
59	1308513-35 5X			411.947	853809.15						
60	ZZZZZZ			0.872	1857.91						
61	ZZZZZZ			0.017	41.11						
62	ZZZZZZ			0.007	22.22						

Analyte Table

		121 Sb [2]		137 Ba [1]		137 Ba [2]		139 La [1]		139 La [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank		7.78		36.67		6.67		236.68		70.00
2	blank	-0.001	6.67	-0.005	33.33	0.000	3.33	-0.001	226.68	0.005	56.67
3	blank	0.000	7.78	0.000	46.67	0.000	3.33	0.000	256.68	0.000	30.00
4	H/1000	0.030	78.89	0.199	640.04	0.148	76.67	0.026	966.74	0.032	220.01
5	H/100	0.298	718.91	1.232	3880.67	1.273	650.04	0.329	9573.36	0.339	2070.27
6	H/10	3.037	7424.07	10.199	32044.33	9.866	5111.08	3.006	85828.29	2.938	18138.22
7	HIGH	29.996	73108.06	99.978	315066.07	100.011	51647.31	29.999	857575.40	30.006	184364.10
8	ICV	5.974	14559.12	20.512	64548.91	20.141	10397.30	6.027	172160.22	6.019	37002.21
9	ICB	0.006	20.00	-0.001	43.33	0.023	13.33	0.004	350.02	0.007	66.67
10	ZZZZZZ	-0.002	3.33	-0.002	40.00	0.016	10.00	0.002	313.36	0.008	73.34
11	ICSA	0.068	174.45	0.014	100.01	0.052	30.00	0.070	2320.29	0.067	450.03
12	ICSAB	3.194	7918.77	10.418	32932.82	9.619	5051.04	3.135	90049.02	3.161	19773.39
13	ZZZZZZ	-0.002	3.33	0.081	280.01	0.102	50.00	4.653	120656.75	4.718	25709.02
14	IP130920-2MB ...	-0.001	6.66	0.018	96.67	0.007	6.67	0.003	323.35	0.004	53.33
15	IM130920-1LCS...	2.978	7093.94	9.702	30758.39	10.243	5181.14	10.893	312910.18	10.952	65751.05
16	1308501-1 10X	0.019	56.67	39.099	126531.76	36.844	19820.15	44.519	1306397.30	42.979	275025.92
17	CCV	3.047	7471.89	10.095	31777.26	10.553	5484.57	3.041	86968.02	3.067	18989.14
18	CCB	0.008	24.45	0.018	96.67	0.038	20.00	0.002	316.69	0.006	60.00
19	IP130920-1MB ...	0.001	11.11	-0.003	36.67	0.030	16.67	0.005	386.69	0.007	70.00
20	IP130920-2LCS...	3.196	7806.48	10.424	32455.18	10.278	5317.82	3.044	86107.15	2.938	18094.81
21	1309158-1 10X	0.123	311.12	33.174	105324.31	33.202	17320.36	0.006	473.36	0.011	100.00
22	1309217-2 10X	0.128	324.45	10.021	31433.15	10.097	5284.52	0.009	553.37	0.013	113.34
23	1309027-1 10X	0.143	362.23	2.232	7065.31	2.181	1143.44	0.043	1516.83	0.035	253.35
24	1309234-1 10X	0.107	270.01	9.790	30992.20	10.638	5501.20	0.006	473.37	0.011	103.34
25	1309196-1 10X	0.004	18.89	8.710	27191.59	8.983	4637.62	0.003	363.36	0.008	86.67
26	1309236-1 10X	0.143	355.57	3.793	11818.38	3.685	1900.22	0.010	580.04	0.016	133.34
27	CCV	3.134	7568.59	10.025	31934.20	10.352	5301.15	2.987	86458.78	3.067	18698.64
28	CCB	0.001	11.11	-0.005	33.33	0.037	20.00	0.002	296.68	0.003	46.67
29	EX130919-20M...	0.000	7.78	0.012	80.00	0.037	20.00				
30	EX130919-20LC...	2.864	7110.61	9.946	31055.64	10.106	5314.50				
31	1309185-4 10X	0.020	56.67	0.307	993.42	0.362	186.68				

Analyte Table

		121 Sb [2]		137 Ba [1]		137 Ba [2]		139 La [1]		139 La [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1309185-4D 10X	0.023	64.45	0.273	903.41	0.308	160.01				
33	1309185-4L 50X	0.009	30.00	0.060	226.68	0.095	50.00				
34	1309185-4MS 10X	2.834	6966.12	10.145	31593.60	9.422	4914.37				
35	1309185-4MSD ...	2.919	7028.33	10.059	31222.56	10.725	5467.93				
36	CCV	3.131	7596.39	10.156	31907.36	10.159	5221.17				
37	CCB	0.005	18.89	0.003	53.33	0.007	6.67				
38	CCV					10.261	5344.55			3.069	19025.74
39	CCB					0.000	3.33			0.004	56.67
40	1309242-1 50X					51.757	28356.89			39965.131	2.60416E+08
41	1309242-2 50X					110.478	59673.29			43551.210	2.79755E+08
42	1309242-3 50X					529.768	285765.11			31885.075	2.04567E+08
43	1309242-4 50X					60.292	31864.19			44834.228	2.81857E+08
44	1309242-5 50X					50.861	27816.03			74144.597	4.82260E+08
45	1309242-6 50X					170.253	91400.20			25067.640	1.60076E+08
46	1309242-7 50X					9.070	5041.11			24622.420	1.62679E+08
47	1309242-8 50X					962.465	509696.27			11471.936	72259043.92
48	ZZZZZZ					0.082	43.33			0.352	2073.58
49	ZZZZZZ					0.082	43.33			0.103	630.05
50	CCV					10.282	5604.59			2.957	19196.05
51	CCB					0.062	33.33			0.038	246.68
52	CCV										
53	CCB										
54	1308513-8 2X										
55	1308513-13 5X										
56	1308513-19 2X										
57	1308513-33 5X										
58	1308513-34 5X										
59	1308513-35 5X										
60	ZZZZZZ										
61	ZZZZZZ										
62	ZZZZZZ										

Analyte Table

		121 Sb [2]		137 Ba [1]		137 Ba [2]		139 La [1]		139 La [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	ZZZZZZ										
64	CCV										
65	CCB										
66	ZZZZZZ					0.014	10.00			0.035	230.01
67	ZZZZZZ					0.027	16.67			0.039	253.35
68	ZZZZZZ					0.027	16.67			0.037	243.35
69	ZZZZZZ					0.027	16.67			0.039	260.02
70	ZZZZZZ					0.007	6.67			0.026	190.01
71	ZZZZZZ					0.014	10.00			0.030	206.68
72	CCV					9.905	5631.29			2.942	19910.34
73	CCB					0.013	10.00			0.041	270.02
74	1309035-1 100...					0.864	430.03			0.134	820.06
75	1309035-2 100...					0.907	456.70			2.360	14070.24
76	1309035-3 100...					0.861	436.70			0.859	5194.46
77	1309035-4 100...					1.061	540.04			1.090	6608.39
78	1309035-5 100...					1.377	706.72			6.946	42312.72
79	1309035-6 100...					0.881	450.03			3.531	21295.82
80	1309035-7 100...					0.604	303.35			7.956	46778.30
81	1309035-8 100...					0.491	246.68			0.366	2180.26
82	ZZZZZZ					0.077	43.34			0.837	5094.38
83	ZZZZZZ					0.012	10.00			0.084	560.04
84	CCV					10.134	5668.00			2.988	19903.79
85	CCB					0.032	20.00			0.038	263.35

Analyte Table

		140 Ce [1]		141 Pr [1]		146 Nd [1]		205 Tl [1]		205 Tl [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank		166.68		10.00		6.67		10.95		10.00
2	blank	0.003	170.01	0.000	23.34	0.000	20.00	0.000	13.81	0.001	9.05
3	blank	0.000	106.67	0.000	20.00	0.000	20.00	0.000	11.91	0.000	3.81
4	H/1000	0.040	1156.77	0.029	973.41	0.038	260.02	0.002	63.33	0.002	23.33
5	H/100	0.330	9266.56	0.305	10710.85	0.308	2046.91	0.021	583.82	0.020	191.91
6	H/10	3.013	84428.17	3.044	107748.64	2.996	19933.84	0.194	5597.76	0.194	1894.90
7	HIGH	29.998	843343.95	29.996	1066380.79	30.000	200269.93	2.001	55888.46	2.001	19335.51
8	ICV	6.073	170465.95	6.054	214788.19	6.154	41012.61	0.399	11435.87	0.395	3990.56
9	ICB	0.006	243.35	0.000	20.00	-0.002	6.67	0.003	82.86	0.002	22.38
10	ZZZZZZ	0.004	203.35	0.001	53.33	-0.002	6.67	0.001	39.05	0.002	23.33
11	ICSA	0.077	2303.64	0.001	60.00	0.009	83.34	0.002	82.38	0.002	26.67
12	ICSAB	3.199	90197.48	3.097	110320.18	3.081	20621.40	0.197	5604.90	0.200	1949.19
13	ZZZZZZ	0.351	9049.79	0.028	910.08	0.026	180.01	0.001	40.00	0.001	15.71
14	IP130920-2MB ...	0.002	166.68	0.000	23.33	-0.002	10.00	0.000	13.33	0.001	13.33
15	IM130920-1LCS...	3.649	103126.82	2.998	107029.45	2.949	19790.23	0.213	6138.93	0.205	2044.92
16	1308501-1 10X	3.005	86844.96	0.316	11541.53	0.388	2680.36	0.059	1753.93	0.054	547.16
17	CCV	3.032	85131.90	3.035	107623.86	2.965	19760.16	0.199	5645.86	0.198	1980.63
18	CCB	0.006	253.35	0.000	10.00	0.000	20.00	0.006	170.48	0.005	47.62
19	IP130920-1MB ...	0.005	216.68	0.001	50.00	-0.002	10.00	0.001	43.33	0.002	19.05
20	IP130920-2LCS...	3.175	88155.34	3.123	109555.00	2.971	19586.64	0.219	6308.53	0.227	2210.18
21	1309158-1 10X	0.007	326.68	0.000	36.67	0.000	20.00	0.007	227.62	0.004	42.86
22	1309217-2 10X	0.010	403.36	0.001	43.33	0.003	40.00	0.001	46.66	0.001	19.52
23	1309027-1 10X	0.068	2023.57	0.005	203.34	0.018	140.01	0.000	27.14	0.001	14.76
24	1309234-1 10X	0.010	396.69	0.001	73.34	0.002	36.67	0.001	31.43	0.001	10.47
25	1309196-1 10X	0.005	246.68	0.000	16.67	0.000	23.33	0.000	23.34	0.000	4.76
26	1309236-1 10X	0.004	226.68	0.000	40.00	-0.001	16.67	0.000	16.19	0.000	7.14
27	CCV	3.040	86382.03	2.997	107560.66	2.966	20003.78	0.197	5681.60	0.192	1928.71
28	CCB	0.002	146.68	0.000	33.33	-0.001	16.67	0.007	191.43	0.004	40.95
29	EX130919-20M...							0.000	18.09	0.000	6.19
30	EX130919-20LC...							0.211	6108.91	0.216	2114.93
31	1309185-4 10X							0.006	177.15	0.005	51.43

Analyte Table

		140 Ce [1]		141 Pr [1]		146 Nd [1]		205 Tl [1]		205 Tl [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1309185-4D 10X							0.001	50.00	0.001	12.38
33	1309185-4L 50X							0.000	23.33	0.001	11.91
34	1309185-4MS 10X							0.202	5746.87	0.209	2033.97
35	1309185-4MSD ...							0.212	6025.55	0.214	2118.26
36	CCV							0.205	5800.21	0.207	2024.92
37	CCB							0.009	222.86	0.005	45.24
38	CCV										
39	CCB										
40	1309242-1 50X										
41	1309242-2 50X										
42	1309242-3 50X										
43	1309242-4 50X										
44	1309242-5 50X										
45	1309242-6 50X										
46	1309242-7 50X										
47	1309242-8 50X										
48	ZZZZZZ										
49	ZZZZZZ										
50	CCV										
51	CCB										
52	CCV										
53	CCB										
54	1308513-8 2X										
55	1308513-13 5X										
56	1308513-19 2X										
57	1308513-33 5X										
58	1308513-34 5X										
59	1308513-35 5X										
60	ZZZZZZ										
61	ZZZZZZ										
62	ZZZZZZ										

Analyte Table

		206 (Pb) [1]		207 (Pb) [1]		208 Pb [1]		208 Pb [2]		232 Th [1]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank		520.04		496.70		2136.84		820.06		66.67
2	blank	-0.009	483.37	0.002	490.03	-0.007	2106.84	-0.013	596.71	0.000	47.78
3	blank	0.000	563.37	0.000	470.04	0.000	2360.20	0.000	726.72	0.000	60.00
4	H/1000	0.047	1080.10	0.046	903.41	0.050	4540.56	0.047	1413.43	0.006	380.01
5	H/100	0.530	6271.69	0.551	5621.36	0.533	25216.32	0.520	8094.68	0.079	3979.50
6	H/10	4.987	55573.01	5.076	49089.80	5.050	224039.59	5.047	71942.90	0.951	49178.64
7	HIGH	50.001	542284.67	49.992	470789.16	49.995	2157893.89	49.995	698985.33	10.005	501243.99
8	ICV	10.165	112023.53	10.124	96868.18	10.150	445298.01	9.902	142074.38	1.955	100497.73
9	ICB	-0.008	486.70	-0.003	440.03	-0.012	1903.48	-0.003	703.38	0.001	112.23
10	ZZZZZZ	-0.011	456.70	-0.011	380.03	-0.015	1813.48	-0.001	706.71	0.001	97.78
11	ICSA	0.018	826.73	0.011	636.71	0.008	3033.60	0.015	1053.41	0.005	334.45
12	ICSAB	5.291	56857.61	5.268	49143.40	5.301	226828.14	5.078	72456.03	1.023	52144.49
13	ZZZZZZ	0.041	996.74	0.051	933.42	0.042	4137.13	0.048	1406.77	0.000	61.11
14	IP130920-2MB ...	-0.013	450.03	-0.009	400.03	-0.016	1793.48	-0.016	540.04	-0.001	25.55
15	IM130920-1LCS...	5.121	55703.17	5.073	47905.27	5.154	223243.38	5.106	71872.02	0.933	48330.14
16	1308501-1 10X	0.535	6675.22	0.555	5968.16	0.549	27354.70	0.494	8284.71	0.053	2868.11
17	CCV	5.071	55552.76	5.163	49096.65	5.143	224353.98	4.961	71888.76	0.970	49363.63
18	CCB	0.000	573.38	0.006	530.05	-0.006	2173.52	-0.008	640.04	0.004	232.23
19	IP130920-1MB ...	-0.011	463.37	-0.009	396.69	-0.014	1850.15	-0.014	573.37	0.000	64.45
20	IP130920-2LCS...	5.451	58919.29	5.416	50826.12	5.450	234575.44	5.481	77786.97	1.013	52378.71
21	1309158-1 10X	-0.001	636.72	0.006	600.05	0.005	2933.61	0.014	1046.75	0.005	344.45
22	1309217-2 10X	-0.007	573.37	0.005	590.04	-0.009	2310.19	-0.003	803.39	0.004	291.12
23	1309027-1 10X	-0.003	593.38	-0.016	373.36	-0.007	2323.54	-0.004	776.72	0.001	110.00
24	1309234-1 10X	-0.004	606.71	0.016	693.39	-0.004	2563.56	0.003	890.07	0.001	98.89
25	1309196-1 10X	-0.008	546.70	0.010	626.72	-0.005	2463.55	0.006	940.07	0.000	53.33
26	1309236-1 10X	0.001	650.05	0.006	596.71	-0.002	2610.23	-0.002	806.72	0.000	60.00
27	CCV	5.273	57787.89	5.092	48434.21	5.182	226134.71	4.928	72101.39	0.957	49459.43
28	CCB	-0.016	423.36	-0.007	420.03	-0.019	1666.79	-0.011	606.70	0.003	207.78
29	EX130919-20M...	-0.023	353.36	-0.012	376.69	-0.021	1580.12	-0.017	536.70		
30	EX130919-20LC...	5.218	56235.38	5.161	48273.67	5.186	222523.94	5.090	73992.35		
31	1309185-4 10X	0.002	653.38	-0.001	523.37	-0.001	2626.90	-0.004	776.71		

Analyte Table

		206 (Pb) [1]		207 (Pb) [1]		208 Pb [1]		208 Pb [2]		232 Th [1]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1309185-4D 10X	0.002	663.38	0.008	606.71	0.001	2700.25	0.006	940.06		
33	1309185-4L 50X	-0.017	433.36	-0.016	366.69	-0.019	1800.15	-0.019	546.70		
34	1309185-4MS 10X	5.018	54578.91	5.024	47434.71	5.030	217878.55	4.956	70833.13		
35	1309185-4MSD ...	5.064	55274.64	5.077	48096.64	5.086	221022.92	4.859	70893.70		
36	CCV	5.156	56834.34	5.173	49504.88	5.166	226753.71	5.122	74627.18		
37	CCB	-0.018	393.36	-0.015	346.69	-0.021	1576.79	-0.014	570.03		
38	CCV							5.048	73434.87		
39	CCB							-0.019	516.70		
40	1309242-1 50X							4.128	61985.07		
41	1309242-2 50X							2.809	42342.56		
42	1309242-3 50X							2.023	30087.29		
43	1309242-4 50X							12.856	186157.65		
44	1309242-5 50X							1.581	23098.21		
45	1309242-6 50X							3.200	46914.36		
46	1309242-7 50X							1.959	29319.81		
47	1309242-8 50X							2.147	31885.29		
48	ZZZZZZ							-0.004	693.38		
49	ZZZZZZ							-0.014	570.03		
50	CCV							4.975	73467.98		
51	CCB							-0.017	530.04		
52	CCV										
53	CCB										
54	1308513-8 2X										
55	1308513-13 5X										
56	1308513-19 2X										
57	1308513-33 5X										
58	1308513-34 5X										
59	1308513-35 5X										
60	ZZZZZZ										
61	ZZZZZZ										
62	ZZZZZZ										

Analyte Table

		206 (Pb) [1]		207 (Pb) [1]		208 Pb [1]		208 Pb [2]		232 Th [1]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
63	ZZZZZZ										
64	CCV										
65	CCB										
66	ZZZZZZ							-0.021	476.70		
67	ZZZZZZ							-0.021	483.36		
68	ZZZZZZ							-0.017	533.37		
69	ZZZZZZ							-0.028	393.35		
70	ZZZZZZ							-0.019	523.37		
71	ZZZZZZ							-0.019	510.03		
72	CCV							5.009	72500.07		
73	CCB							-0.018	530.03		
74	1309035-1 100...							0.011	896.73		
75	1309035-2 100...							0.013	930.06		
76	1309035-3 100...							0.009	876.72		
77	1309035-4 100...							0.004	846.73		
78	1309035-5 100...							0.004	826.73		
79	1309035-6 100...							0.001	780.05		
80	1309035-7 100...							-0.003	726.71		
81	1309035-8 100...							-0.003	750.05		
82	ZZZZZZ							-0.021	510.03		
83	ZZZZZZ							-0.019	546.70		
84	CCV							4.878	72923.79		
85	CCB							-0.020	490.04		

Analyte Table

		232 Th [2]		238 U [1]		238 U [2]		240 Vanadium [2]		241 Vanadium [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
1	blank		17.78		24.45		12.22		-22.73		-84.25
2	blank	0.000	18.89	0.000	42.22	0.000	5.55	0.022	17.05	0.039	-10.40
3	blank	0.000	23.33	0.000	45.56	0.000	4.44	0.000	-8.47	0.000	-54.92
4	H/1000	0.007	131.11	0.009	516.69	0.009	146.67	0.083	94.26	0.067	24.16
5	H/100	0.081	1303.41	0.100	5166.55	0.103	1660.12	1.008	1289.68	1.020	1240.38
6	H/10	0.967	15559.63	0.965	51795.47	0.989	16142.39	9.378	12329.61	9.221	11955.38
7	HIGH	10.004	159436.28	10.004	520178.84	10.001	161814.71	100.062	127890.87	100.078	126644.88
8	ICV	1.872	31148.03	1.949	103978.73	1.922	32460.45	18.652	24408.87	17.920	23175.51
9	ICB	0.001	34.44	0.000	28.89	0.000	5.56	-0.022	-33.10	-0.038	-95.60
10	ZZZZZZ	-0.001	13.33	0.000	41.11	0.000	4.45	-0.022	-34.61	-0.042	-103.88
11	ICSA	0.004	93.34	0.000	70.00	0.001	21.11	-0.029	-47.16	-0.089	-175.44
12	ICSAB	1.007	16183.68	1.012	53537.20	1.015	16536.20	9.876	13177.48	9.913	13048.75
13	ZZZZZZ	0.000	16.67	0.001	76.67	0.001	25.56	-0.001	-9.12	0.013	-39.77
14	IP130920-2MB ...	0.000	20.00	0.000	58.89	0.000	10.00	-0.022	-34.86	-0.031	-91.91
15	IM130920-1LCS...	0.919	15144.79	0.950	51040.95	0.954	15938.89	8.920	11904.66	8.876	11682.07
16	1308501-1 10X	0.048	815.60	0.129	7140.73	0.131	2207.98	0.272	359.13	0.267	295.41
17	CCV	0.930	15366.08	0.989	52212.47	0.966	16172.45	9.354	12381.54	9.150	11955.79
18	CCB	0.003	68.89	0.000	54.45	0.000	8.89	-0.029	-43.60	-0.042	-104.64
19	IP130920-1MB ...	0.000	28.89	0.000	61.11	0.001	13.33	0.013	5.20	0.031	-20.55
20	IP130920-2LCS...	1.025	16430.60	1.013	54373.81	1.044	16964.45	9.418	12669.91	9.195	12198.35
21	1309158-1 10X	0.003	68.89	0.001	83.33	0.001	16.67	-0.033	-52.63	-0.059	-136.18
22	1309217-2 10X	0.004	92.22	0.004	286.67	0.003	58.89	0.003	-6.95	-0.006	-72.02
23	1309027-1 10X	0.000	25.56	1.869	97887.51	1.821	29925.03	0.035	35.83	0.040	-11.00
24	1309234-1 10X	0.001	48.89	0.001	118.89	0.002	41.11	-0.007	-19.27	-0.047	-125.87
25	1309196-1 10X	-0.001	14.44	0.917	47697.55	0.906	14717.56	0.007	-0.82	-0.060	-135.82
26	1309236-1 10X	-0.001	17.78	0.001	100.01	0.001	15.55	-0.075	-108.93	-0.132	-234.60
27	CCV	0.954	15762.09	0.985	52838.24	0.983	16468.41	9.152	12304.17	8.819	11690.47
28	CCB	0.004	88.89	0.000	42.22	0.000	11.11	-0.087	-109.22	-0.159	-237.74
29	EX130919-20M...							-0.020	-31.40	-0.032	-90.51
30	EX130919-20LC...							9.804	12917.19	10.104	13132.21
31	1309185-4 10X							-0.010	-21.52	0.002	-55.42

Analyte Table

		232 Th [2]		238 U [1]		238 U [2]		240 Vanadium [2]		241 Vanadium [2]	
	Sample Name	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS	Conc. [ppb]	CPS
32	1309185-4D 10X							-0.023	-39.59	-0.032	-102.87
33	1309185-4L 50X							-0.023	-37.40	-0.032	-98.19
34	1309185-4MS 10X							8.887	11594.46	8.887	11437.49
35	1309185-4MSD ...							8.914	11557.55	8.856	11328.04
36	CCV							9.407	12336.18	9.250	11963.43
37	CCB							-0.026	-39.22	-0.036	-95.70
38	CCV	0.953	15519.60			0.994	16417.15				
39	CCB	0.004	83.33			0.000	2.22				
40	1309242-1 50X	3.941	64327.71			5.556	92055.58				
41	1309242-2 50X	4.673	74981.08			2.086	33979.64				
42	1309242-3 50X	6.426	101197.47			0.157	2514.70				
43	1309242-4 50X	2.017	32017.64			11.870	191147.81				
44	1309242-5 50X	1.950	31022.19			0.265	4274.03				
45	1309242-6 50X	0.700	11173.35			0.184	2981.47				
46	1309242-7 50X	1.116	17776.61			0.097	1573.44				
47	1309242-8 50X	3.538	55177.89			2.812	44504.02				
48	ZZZZZZ	0.002	48.89			0.000	5.55				
49	ZZZZZZ	0.001	32.22			0.000	7.78				
50	CCV	0.967	15542.91			0.996	16226.99				
51	CCB	0.001	42.22			0.000	7.78				
52	CCV										
53	CCB										
54	1308513-8 2X										
55	1308513-13 5X										
56	1308513-19 2X										
57	1308513-33 5X										
58	1308513-34 5X										
59	1308513-35 5X										
60	ZZZZZZ										
61	ZZZZZZ										
62	ZZZZZZ										

ISTD Table

		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]		103 Rh (ISTD) [1]	
	Sample Name	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	blank	130587.62		10500.52		63402.01		5044.39		195322.05	
2	blank	133081.09	100.0	10904.16	100.0	63599.18	100.0	4640.91	100.0	198392.05	100.0
3	blank	131764.88	100.0	10977.52	100.0	63672.53	100.0	4744.27	100.0	195033.85	100.0
4	H/1000	139481.84	105.9	11424.54	104.1	66818.15	104.9	5124.34	108.0	209362.12	107.3
5	H/100	146824.72	111.4	11557.97	105.3	70417.10	110.6	5037.75	106.2	220150.31	112.9
6	H/10	150629.17	114.3	12008.34	109.4	71037.26	111.6	5651.25	119.1	220683.34	113.2
7	HIGH	153313.74	116.4	13306.12	121.2	72713.40	114.2	6261.50	132.0	214235.29	109.8
8	ICV	152320.73	115.6	12572.08	114.5	71517.99	112.3	5494.55	115.8	222277.55	114.0
9	ICB	128230.40	97.3	10460.45	95.3	61929.53	97.3	4594.21	96.8	191568.29	98.2
10	ZZZZZZ	128930.01	97.8	10143.65	92.4	61226.55	96.2	4680.93	98.7	193038.09	99.0
11	ICSA	151339.65	114.9	11874.88	108.2	77190.97	121.2	5541.23	116.8	219388.03	112.5
12	ICSAB	151799.43	115.2	12815.69	116.7	76266.32	119.8	5514.53	116.2	219796.28	112.7
13	ZZZZZZ	134136.66	101.8	10600.62	96.6	62414.59	98.0	4797.64	101.1	202016.52	103.6
14	IP130920-2MB ...	130518.69	99.1	10183.63	92.8	61822.14	97.1	4734.26	99.8	198619.69	101.8
15	IM130920-1LCS...	149048.67	113.1	12208.52	111.2	68116.89	107.0	5197.74	109.6	224012.36	114.9
16	1308501-1 10X	156349.02	118.7	12688.88	115.6	70953.16	111.4	5474.56	115.4	232267.55	119.1
17	CCV	151181.02	114.7	12488.83	113.8	69824.18	109.7	5551.22	117.0	221778.95	113.7
18	CCB	128358.08	97.4	10443.85	95.1	60494.02	95.0	4844.31	102.1	196273.73	100.6
19	IP130920-1MB ...	128484.77	97.5	10300.39	93.8	60684.22	95.3	4567.52	96.3	194123.59	99.5
20	IP130920-2LCS...	149811.13	113.7	12488.75	113.8	68505.50	107.6	5291.14	111.5	221857.70	113.8
21	1309158-1 10X	147773.60	112.1	12315.20	112.2	71039.58	111.6	5594.55	117.9	222529.05	114.1
22	1309217-2 10X	147608.47	112.0	12165.09	110.8	76001.90	119.4	5761.32	121.4	218001.71	111.8
23	1309027-1 10X	147812.93	112.2	11904.82	108.4	69225.06	108.7	5634.61	118.8	215898.25	110.7
24	1309234-1 10X	148376.10	112.6	12362.03	112.6	69750.94	109.5	5421.14	114.3	220681.23	113.2
25	1309196-1 10X	146160.23	110.9	12358.53	112.6	66664.32	104.7	5161.09	108.8	215616.23	110.6
26	1309236-1 10X	145901.85	110.7	12442.03	113.3	68044.23	106.9	4994.33	105.3	216114.11	110.8
27	CCV	150058.48	113.9	12528.81	114.1	69858.67	109.7	5344.43	112.7	219793.72	112.7
28	CCB	128509.34	97.5	10543.93	96.1	60728.03	95.4	4864.29	102.5	193909.10	99.4
29	EX130919-20M...	130142.52	98.8	10664.03	97.1	60955.84	95.7	4790.91	101.0	194280.88	99.6
30	EX130919-20LC...	148193.30	112.5	12432.00	113.2	69801.44	109.6	5621.24	118.5	222189.83	113.9
31	1309185-4 10X	143448.84	108.9	12215.12	111.3	65496.57	102.9	5424.49	114.3	212531.62	109.0

ISTD Table

		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]		103 Rh (ISTD) [1]	
	Sample Name	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	1309185-4D 10X	149042.28	113.1	12108.35	110.3	67892.94	106.6	5227.80	110.2	219967.96	112.8
33	1309185-4L 50X	140899.53	106.9	11467.94	104.5	64516.09	101.3	5017.67	105.8	211312.46	108.3
34	1309185-4MS 10X	147611.87	112.0	12545.36	114.3	68493.05	107.6	5231.09	110.3	216502.35	111.0
35	1309185-4MSD ...	147594.86	112.0	12378.54	112.8	66915.46	105.1	5177.75	109.1	219457.20	112.5
36	CCV	149446.56	113.4	12325.26	112.3	69376.14	109.0	5374.51	113.3	218428.60	112.0
37	CCB	128861.37	97.8	10597.33	96.5	60568.23	95.1	4704.25	99.2	193222.53	99.1
38	CCV			12852.33	117.1			5161.07	108.8		
39	CCB			11684.81	106.4			4830.99	101.8		
40	1309242-1 50X			50703.83	461.9			10717.38	225.9		
41	1309242-2 50X			82550.88	752.0			11908.16	251.0		
42	1309242-3 50X			48336.61	440.3			6124.77	129.1		
43	1309242-4 50X			86900.04	791.6			16799.33	354.1		
44	1309242-5 50X			18070.83	164.6			6108.13	128.7		
45	1309242-6 50X			18411.16	167.7			5794.69	122.1		
46	1309242-7 50X			19482.57	177.5			5741.29	121.0		
47	1309242-8 50X			152526.37	1389.4			18978.46	400.0		
48	ZZZZZZ			11277.75	102.7			4890.95	103.1		
49	ZZZZZZ			10754.04	98.0			4697.57	99.0		
50	CCV			12849.02	117.0			5574.52	117.5		
51	CCB			11567.99	105.4			4977.70	104.9		
52	CCV			12945.84	117.9			5924.66	124.9		
53	CCB			11284.48	102.8			4844.29	102.1		
54	1308513-8 2X			12929.09	117.8			6464.91	136.3		
55	1308513-13 5X			13239.36	120.6			6198.13	130.6		
56	1308513-19 2X			13322.74	121.4			6731.65	141.9		
57	1308513-33 5X			13616.41	124.0			5938.04	125.2		
58	1308513-34 5X			12912.34	117.6			6158.12	129.8		
59	1308513-35 5X			13442.84	122.5			5958.05	125.6		
60	ZZZZZZ			13272.84	120.9			5958.01	125.6		
61	ZZZZZZ			11414.52	104.0			5067.68	106.8		
62	ZZZZZZ			11611.31	105.8			5181.08	109.2		

ISTD Table

		71 Ga (ISTD) [1]		71 Ga (ISTD) [2]		72 Ge (ISTD) [1]		72 Ge (ISTD) [2]		103 Rh (ISTD) [1]	
	Sample Name	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
63	ZZZZZZ			11584.66	105.5			5044.37	106.3		
64	CCV			12962.48	118.1			5551.23	117.0		
65	CCB			11554.64	105.3			4697.57	99.0		
66	ZZZZZZ			11434.56	104.2			4937.67	104.1		
67	ZZZZZZ			12021.71	109.5			4951.02	104.4		
68	ZZZZZZ			12101.72	110.2			5171.05	109.0		
69	ZZZZZZ			11824.81	107.7			5057.67	106.6		
70	ZZZZZZ			12038.29	109.7			5214.43	109.9		
71	ZZZZZZ			11688.09	106.5			5374.48	113.3		
72	CCV			13062.47	119.0			6164.82	129.9		
73	CCB			11854.89	108.0			4987.67	105.1		
74	1309035-1 100...			11954.93	108.9			5167.73	108.9		
75	1309035-2 100...			11834.85	107.8			5277.77	111.2		
76	1309035-3 100...			12338.59	112.4			5231.10	110.3		
77	1309035-4 100...			12398.60	112.9			5561.26	117.2		
78	1309035-5 100...			12341.99	112.4			5044.39	106.3		
79	1309035-6 100...			11764.74	107.2			5054.39	106.5		
80	1309035-7 100...			11948.25	108.8			5244.43	110.5		
81	1309035-8 100...			12485.44	113.7			5207.77	109.8		
82	ZZZZZZ			12542.09	114.3			5494.51	115.8		
83	ZZZZZZ			12525.38	114.1			5474.53	115.4		
84	CCV			13399.46	122.1			5514.54	116.2		
85	CCB			11581.29	105.5			5124.38	108.0		

ISTD Table

		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]		195 Pt (ISTD) [2]	
	Sample Name	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
1	blank	68295.14		211927.20		34831.15		157820.51		39099.19	
2	blank	69529.95	100.0	217219.37	100.0	35469.94	100.0	160922.31	100.0	39721.19	100.0
3	blank	70440.52	100.0	215189.42	100.0	35316.08	100.0	160203.47	100.0	39012.70	100.0
4	H/1000	75041.35	106.5	230267.10	107.0	38637.52	109.4	170735.31	106.6	42138.04	108.0
5	H/100	77543.57	110.1	241862.95	112.4	39574.70	112.1	173462.39	108.3	43535.52	111.6
6	H/10	79141.81	112.4	244187.25	113.5	40441.61	114.5	181158.43	113.1	44338.16	113.7
7	HIGH	76897.39	109.2	245258.99	114.0	40347.22	114.2	175710.88	109.7	43959.64	112.7
8	ICV	78756.00	111.8	244739.98	113.7	40329.49	114.2	180146.85	112.4	45878.97	117.6
9	ICB	68134.69	96.7	209177.12	97.2	34747.56	98.4	156316.84	97.6	38317.15	98.2
10	ZZZZZZ	69972.33	99.3	212929.81	98.9	35102.73	99.4	158335.43	98.8	39236.30	100.6
11	ICSA	77781.37	110.4	247739.77	115.1	40677.99	115.2	179138.18	111.8	44708.88	114.6
12	ICSAB	80317.89	114.0	245661.39	114.2	40996.48	116.1	178577.98	111.5	44250.95	113.4
13	ZZZZZZ	71559.39	101.6	222041.86	103.2	35733.12	101.2	164945.62	103.0	39573.99	101.4
14	IP130920-2MB ...	70608.06	100.2	216165.04	100.5	35491.77	100.5	159578.71	99.6	40132.26	102.9
15	IM130920-1LCS...	80354.34	114.1	246286.89	114.5	39469.36	111.8	181309.17	113.2	45377.73	116.3
16	1308501-1 10X	81731.60	116.0	251778.82	117.0	42013.14	119.0	186346.33	116.3	45584.60	116.8
17	CCV	79607.09	113.0	244601.22	113.7	40583.25	114.9	178224.99	111.2	45484.12	116.6
18	CCB	70682.78	100.3	216291.96	100.5	34702.93	98.3	157685.83	98.4	40162.66	102.9
19	IP130920-1MB ...	69246.02	98.3	213623.77	99.3	35695.87	101.1	159987.62	99.9	40720.75	104.4
20	IP130920-2LCS...	80977.72	115.0	241958.49	112.4	40377.02	114.3	181139.86	113.1	44133.63	113.1
21	1309158-1 10X	77405.92	109.9	247014.55	114.8	40724.78	115.3	179964.31	112.3	45561.57	116.8
22	1309217-2 10X	79530.13	112.9	243733.20	113.3	40809.81	115.6	177775.52	111.0	45638.24	117.0
23	1309027-1 10X	78113.78	110.9	244510.85	113.6	40777.40	115.5	176831.57	110.4	44625.03	114.4
24	1309234-1 10X	80384.92	114.1	245967.96	114.3	40416.30	114.4	180001.63	112.4	44882.62	115.0
25	1309196-1 10X	77135.51	109.5	242507.74	112.7	40299.42	114.1	175524.07	109.6	44123.74	113.1
26	1309236-1 10X	79258.68	112.5	241449.86	112.2	40202.26	113.8	178858.56	111.6	45424.05	116.4
27	CCV	80926.85	114.9	247537.75	115.0	39970.12	113.2	181050.38	113.0	45507.77	116.6
28	CCB	70130.28	99.6	213464.33	99.2	35698.08	101.1	157268.74	98.2	41329.08	105.9
29	EX130919-20M...	70092.25	99.5	213321.76	99.1	34820.33	98.6	159765.66	99.7	39119.83	100.3
30	EX130919-20LC...	79329.20	112.6	242530.73	112.7	41059.46	116.3	181645.35	113.4	44531.20	114.1
31	1309185-4 10X	76502.03	108.6	238916.43	111.0	39476.28	111.8	173137.33	108.1	42816.28	109.7

ISTD Table

		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]		195 Pt (ISTD) [2]	
	Sample Name	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
32	1309185-4D 10X	78977.65	112.1	242077.56	112.5	39761.24	112.6	177362.43	110.7	43916.47	112.6
33	1309185-4L 50X	74871.09	106.3	229752.77	106.8	38259.81	108.3	168657.64	105.3	42421.83	108.7
34	1309185-4MS 10X	78568.00	111.5	241987.42	112.5	40678.90	115.2	178165.19	111.2	44283.87	113.5
35	1309185-4MSD ...	78036.16	110.8	241197.73	112.1	39824.53	112.8	178497.84	111.4	45036.87	115.4
36	CCV	78963.57	112.1	244132.83	113.5	40126.32	113.6	177544.35	110.8	44501.42	114.1
37	CCB	69456.68	98.6	212471.11	98.7	36005.99	102.0	156227.80	97.5	39894.83	102.3
38	CCV	80056.58	113.7			40637.41	115.1			44876.27	115.0
39	CCB	73099.97	103.8			37432.77	106.0			40259.21	103.2
40	1309242-1 50X	82428.56	117.0			42783.81	121.1			45019.51	115.4
41	1309242-2 50X	82603.13	117.3			42197.64	119.5			44234.12	113.4
42	1309242-3 50X	81375.33	115.5			42151.77	119.4			43451.43	111.4
43	1309242-4 50X	83242.18	118.2			41293.17	116.9			43762.20	112.2
44	1309242-5 50X	83255.48	118.2			42710.23	120.9			43855.87	112.4
45	1309242-6 50X	82662.99	117.4			41939.99	118.8			43923.12	112.6
46	1309242-7 50X	82173.57	116.7			43382.36	122.8			43899.68	112.5
47	1309242-8 50X	81895.34	116.3			41362.35	117.1			42997.25	110.2
48	ZZZZZZ	72446.37	102.8			38026.02	107.7			38645.27	99.1
49	ZZZZZZ	70956.98	100.7			38037.85	107.7			39129.61	100.3
50	CCV	81312.20	115.4			42545.07	120.5			44287.54	113.5
51	CCB	72878.16	103.5			37407.03	105.9			38929.15	99.8
52	CCV	78807.09	111.9			42322.70	119.8			43839.56	112.4
53	CCB	69972.21	99.3			37205.95	105.4			38263.85	98.1
54	1308513-8 2X	77523.18	110.1			42176.82	119.4			42004.14	107.7
55	1308513-13 5X	80263.98	113.9			43213.17	122.4			44458.18	114.0
56	1308513-19 2X	80236.43	113.9			42844.21	121.3			41937.21	107.5
57	1308513-33 5X	82756.44	117.5			43059.03	121.9			44053.29	112.9
58	1308513-34 5X	79854.95	113.4			42030.82	119.0			42993.57	110.2
59	1308513-35 5X	79446.51	112.8			43429.22	123.0			43826.09	112.3
60	ZZZZZZ	81326.39	115.5			41580.57	117.7			43919.13	112.6
61	ZZZZZZ	71683.66	101.8			37617.58	106.5			38016.98	97.4
62	ZZZZZZ	70678.94	100.3			37402.99	105.9			37619.07	96.4

ISTD Table

		103 Rh (ISTD) [2]		115 In (ISTD) [1]		115 In (ISTD) [2]		195 Pt (ISTD) [1]		195 Pt (ISTD) [2]	
	Sample Name	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%	CPS	Recovery%
63	ZZZZZZ	71328.43	101.3			36765.10	104.1			37445.12	96.0
64	CCV	79533.76	112.9			42830.82	121.3			42970.06	110.1
65	CCB	69285.79	98.4			37365.19	105.8			37177.88	95.3
66	ZZZZZZ	68690.05	97.5			37475.66	106.1			36893.82	94.6
67	ZZZZZZ	72052.02	102.3			37577.32	106.4			38664.87	99.1
68	ZZZZZZ	72091.45	102.3			37669.99	106.7			37117.44	95.1
69	ZZZZZZ	74076.67	105.2			37998.02	107.6			38002.95	97.4
70	ZZZZZZ	75005.31	106.5			38893.43	110.1			38478.32	98.6
71	ZZZZZZ	72251.82	102.6			37970.75	107.5			37903.05	97.2
72	CCV	81027.34	115.0			44369.83	125.6			42943.39	110.1
73	CCB	73216.49	103.9			38120.13	107.9			38948.83	99.8
74	1309035-1 100...	73685.15	104.6			38482.68	109.0			38334.07	98.3
75	1309035-2 100...	74914.53	106.4			39083.86	110.7			39256.71	100.6
76	1309035-3 100...	75041.93	106.5			39411.37	111.6			40189.38	103.0
77	1309035-4 100...	77386.07	109.9			39595.75	112.1			38702.05	99.2
78	1309035-5 100...	74542.75	105.8			40009.89	113.3			39242.84	100.6
79	1309035-6 100...	73273.97	104.0			39562.20	112.0			38948.91	99.8
80	1309035-7 100...	72781.47	103.3			38598.86	109.3			37822.89	97.0
81	1309035-8 100...	75574.37	107.3			38542.76	109.1			39443.53	101.1
82	ZZZZZZ	75982.80	107.9			39752.24	112.6			40837.35	104.7
83	ZZZZZZ	78591.81	111.6			41146.06	116.5			41098.01	105.3
84	CCV	82056.25	116.5			43659.11	123.6			42970.70	110.1
85	CCB	72894.51	103.5			39461.10	111.7			37645.72	96.5

ISTD Table

		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
	Sample Name	CPS	Recovery%	CPS	Recovery%
1	blank	145425.71		46929.41	
2	blank	148983.28	100.0	49585.01	100.0
3	blank	147729.85	100.0	47247.65	100.0
4	H/1000	158004.73	107.0	51270.59	108.5
5	H/100	166135.93	112.5	53890.28	114.1
6	H/10	171844.89	116.3	54302.19	114.9
7	HIGH	169041.57	114.4	53789.88	113.8
8	ICV	170981.11	115.7	55028.31	116.5
9	ICB	146544.47	99.2	47899.75	101.4
10	ZZZZZZ	148065.22	100.2	47106.62	99.7
11	ICSA	167529.12	113.4	55101.44	116.6
12	ICSAB	165840.17	112.3	54341.79	115.0
13	ZZZZZZ	154443.33	104.5	50558.31	107.0
14	IP130920-2MB ...	150558.04	101.9	48367.23	102.4
15	IM130920-1LCS...	167797.49	113.6	53596.41	113.4
16	1308501-1 10X	175251.10	118.6	57640.94	122.0
17	CCV	169058.40	114.4	55158.34	116.7
18	CCB	149747.04	101.4	48531.80	102.7
19	IP130920-1MB ...	148891.28	100.8	49350.64	104.5
20	IP130920-2LCS...	166884.16	113.0	54090.93	114.5
21	1309158-1 10X	170004.42	115.1	55389.10	117.2
22	1309217-2 10X	169798.75	114.9	54947.50	116.3
23	1309027-1 10X	163996.63	111.0	53806.52	113.9
24	1309234-1 10X	170320.87	115.3	54997.56	116.4
25	1309196-1 10X	166544.29	112.7	55117.84	116.7
26	1309236-1 10X	168902.75	114.3	54897.25	116.2
27	CCV	169138.88	114.5	55720.20	117.9
28	CCB	150829.61	102.1	48133.47	101.9
29	EX130919-20M...	150642.15	102.0	48989.91	103.7
30	EX130919-20LC...	166269.42	112.5	55382.63	117.2
31	1309185-4 10X	165980.73	112.4	54154.42	114.6

ISTD Table

		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
	Sample Name	CPS	Recovery%	CPS	Recovery%
32	1309185-4D 10X	167109.07	113.1	55185.22	116.8
33	1309185-4L 50X	160338.21	108.5	51946.32	109.9
34	1309185-4MS 10X	167749.74	113.6	54422.46	115.2
35	1309185-4MSD ...	168343.92	114.0	55536.04	117.5
36	CCV	170086.59	115.1	55505.96	117.5
37	CCB	149073.06	100.9	48769.00	103.2
38	CCV			55389.23	117.2
39	CCB			49882.97	105.6
40	1309242-1 50X			57025.29	120.7
41	1309242-2 50X			56860.89	120.3
42	1309242-3 50X			55667.25	117.8
43	1309242-4 50X			55515.99	117.5
44	1309242-5 50X			54248.30	114.8
45	1309242-6 50X			55485.73	117.4
46	1309242-7 50X			55987.84	118.5
47	1309242-8 50X			55713.38	117.9
48	ZZZZZZ			48778.96	103.2
49	ZZZZZZ			48842.48	103.4
50	CCV			56215.83	119.0
51	CCB			48973.02	103.7
52	CCV			55633.12	117.7
53	CCB			48936.21	103.6
54	1308513-8 2X			52284.11	110.7
55	1308513-13 5X			54806.91	116.0
56	1308513-19 2X			53010.14	112.2
57	1308513-33 5X			55572.65	117.6
58	1308513-34 5X			52699.26	111.5
59	1308513-35 5X			52545.37	111.2
60	ZZZZZZ			54301.89	114.9
61	ZZZZZZ			47959.53	101.5
62	ZZZZZZ			47926.17	101.4

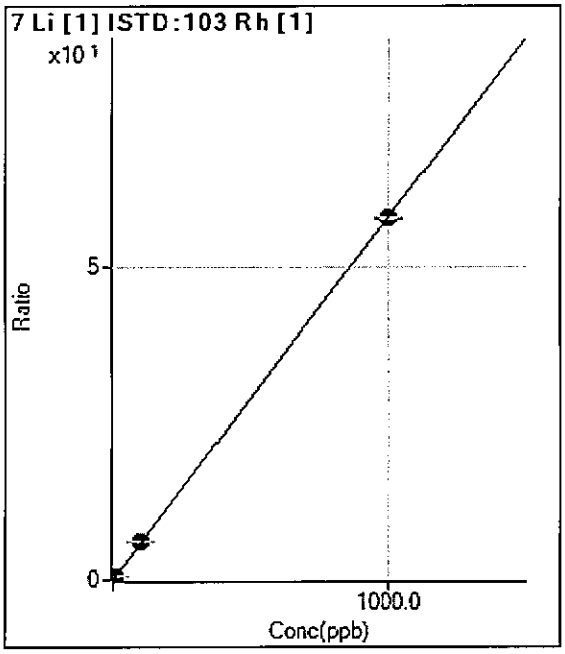
ISTD Table

		209 Bi (ISTD) [1]		209 Bi (ISTD) [2]	
	Sample Name	CPS	Recovery%	CPS	Recovery%
63	ZZZZZZ			48019.67	101.6
64	CCV			54428.73	115.2
65	CCB			48046.53	101.7
66	ZZZZZZ			47812.48	101.2
67	ZZZZZZ			48398.01	102.4
68	ZZZZZZ			48237.17	102.1
69	ZZZZZZ			48875.80	103.4
70	ZZZZZZ			49752.02	105.3
71	ZZZZZZ			49026.39	103.8
72	CCV			55157.99	116.7
73	CCB			49555.24	104.9
74	1309035-1 100...			48983.24	103.7
75	1309035-2 100...			49749.31	105.3
76	1309035-3 100...			49705.27	105.2
77	1309035-4 100...			51862.60	109.8
78	1309035-5 100...			50368.07	106.6
79	1309035-6 100...			49401.09	104.6
80	1309035-7 100...			50304.47	106.5
81	1309035-8 100...			51187.21	108.3
82	ZZZZZZ			51063.48	108.1
83	ZZZZZZ			52207.12	110.5
84	CCV			56887.58	120.4
85	CCB			48521.54	102.7

Calibration for 047SMPL.D

Batch Folder:	C:¥ICPMH¥1¥DATA¥13I21o00.B¥
Analysis File:	13I21o00.batch.xml
DA Date-Time:	9/23/2013 8:21:42 AM
Calibration Title:	
Calibration Method:	External Calibration
VIS Interpolation Fit:	
Tune Step:	#1 hehe.u

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB_13I21I00.D	blank	9/21/2013 11:38:20 AM
2	004CALS_13I21I00.D	H/1000	9/21/2013 11:41:50 AM
3	005CALS_13I21I00.D	H/100	9/21/2013 11:45:20 AM
4	006CALS_13I21I00.D	H/10	9/21/2013 11:48:49 AM
5	007CALS_13I21I00.D	HIGH	9/21/2013 11:52:15 AM
6			



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1262.73	0.0065	P	1.2
2	☐	1.000	1.040	13985.15	0.0668	P	2.1
3	☐	10.000	10.137	130813.05	0.5943	P	2.0
4	☐	100.000	104.838	1342948.87	6.0858	A	1.7
5	☐	1000.000	999.515	12417652.67	57.9665	A	0.8
6	☐	200.000					

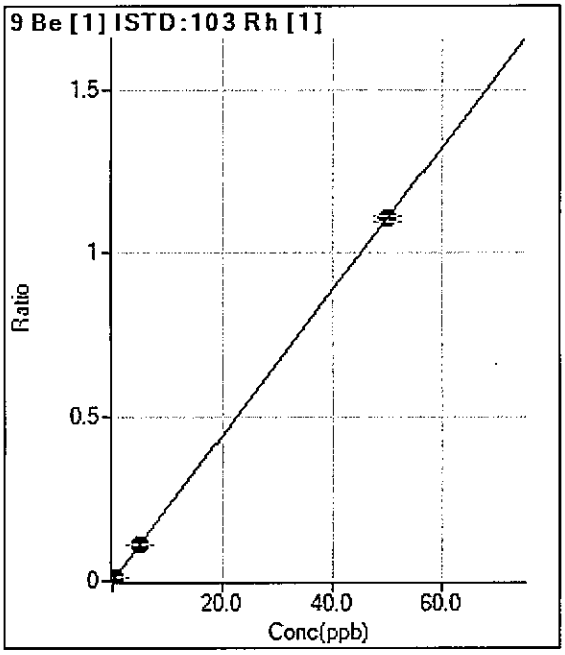
y = 0.0580 * x + 0.0065

R = 1.0000

DL = 0.003902

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	56.00	0.0003	P	11.7
2	☐	0.050	0.049	285.34	0.0014	P	13.3
3	☐	0.500	0.469	2341.52	0.0106	P	3.5
4	☐	5.000	4.961	24241.85	0.1098	P	0.6
5	☐	50.000	50.004	236643.27	1.1047	P	1.3
6	☐	10.000					

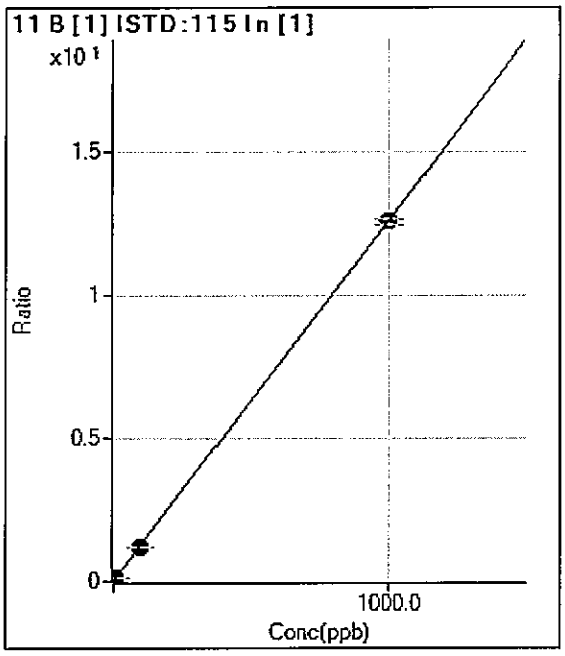
y = 0.0221 * x + 2.8697E-004

R = 1.0000

DL = 0.004564

Weight: None

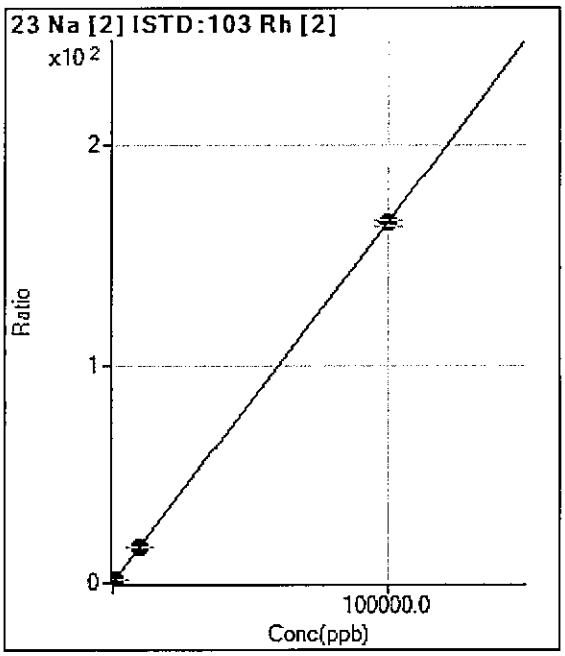
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	478.90	0.0022	P	1.7
2	☐	1.000	1.785	5687.68	0.0247	P	3.8
3	☐	10.000	10.590	32800.55	0.1356	P	1.6
4	☐	100.000	95.857	295335.62	1.2096	P	1.9
5	☐	1000.000	1000.408	3090904.39	12.6034	A	1.8
6	☐	200.000					

y = 0.0126 * x + 0.0022
R = 1.0000
DL = 0.008778

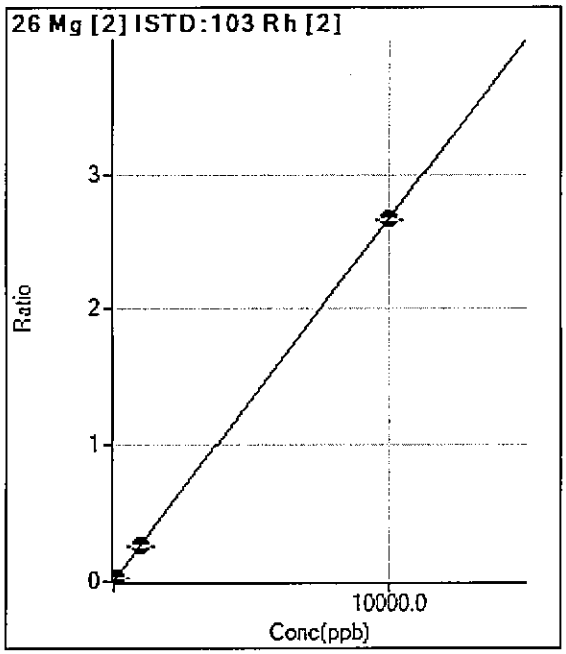
Weight: None
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10924.04	0.1551	P	1.5
2	☐	100.000	95.967	23507.52	0.3133	P	1.3
3	☐	1000.000	1000.810	139895.32	1.8045	P	2.7
4	☐	10000.000	10110.696	1330722.64	16.8188	A	2.7
5	☐	100000.000	99988.926	12683440.23	164.9493	A	1.3
6	☐	20000.000					

y = 0.0016 * x + 0.1551
R = 1.0000
DL = 4.346
BEC = 94.1

Weight: None
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0001	P	173.2
2	☐	10.000	12.813	263.35	0.0035	P	19.3
3	☐	100.000	92.524	1916.86	0.0248	P	11.2
4	☐	1000.000	986.676	20817.00	0.2631	P	1.9
5	☐	10000.000	10001.404	204970.38	2.6658	P	0.8
6	☐	2000.000					

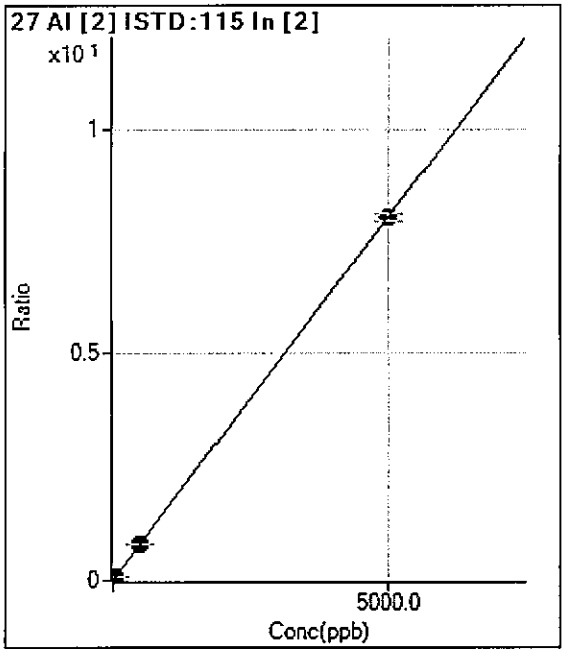
y = 2.6653E-004 * x + 9.3447E-005

R = 1.0000

DL = 1.822

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0002	P	86.7
2	☐	5.000	7.901	496.70	0.0128	P	15.6
3	☐	50.000	52.959	3363.82	0.0851	P	6.3
4	☐	500.000	505.517	32773.11	0.8103	P	1.1
5	☐	5000.000	4999.416	323175.74	8.0122	P	2.1
6	☐	1000.000					

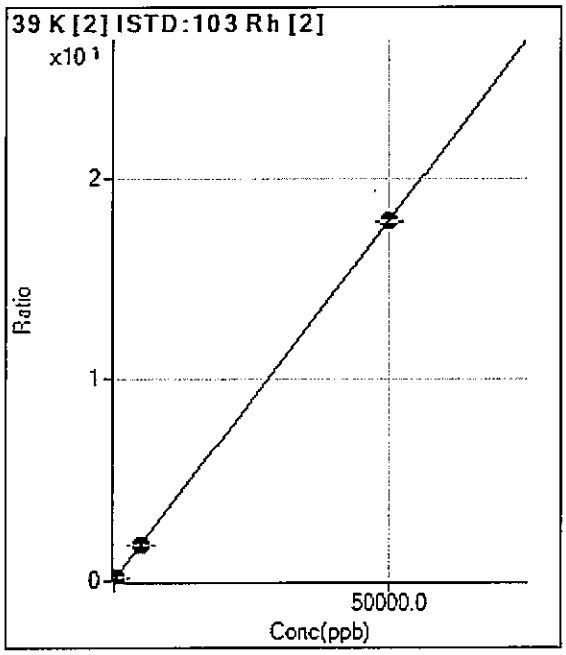
y = 0.0016 * x + 1.8515E-004

R = 1.0000

DL = 0.3004

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3830.60	0.0544	P	6.0
2	☐	50.000	52.679	5491.14	0.0732	P	7.1
3	☐	500.000	482.873	17563.28	0.2265	P	1.3
4	☐	5000.000	4942.050	143657.69	1.8152	P	0.2
5	☐	50000.000	50005.964	1374247.90	17.8708	A	0.6
6	☐	10000.000					

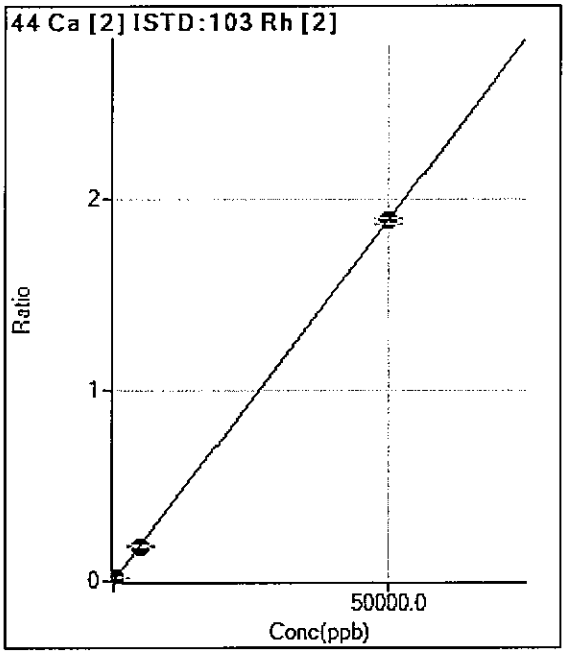
y = 3.5629E-004 * x + 0.0544

R = 1.0000

DL = 27.69

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-2.82	0.0000	P	-225.6
2	☐	50.000	66.298	185.17	0.0025	P	17.2
3	☐	500.000	470.496	1373.57	0.0177	P	13.6
4	☐	5000.000	4899.912	14651.05	0.1851	P	0.5
5	☐	50000.000	50010.288	145325.94	1.8899	P	1.5
6	☐	10000.000					

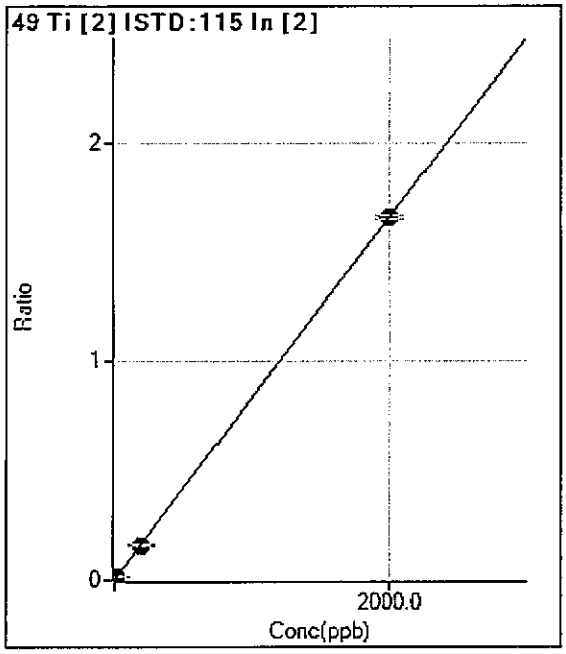
y = 3.7791E-005 * x - 3.8942E-005

R = 1.0000

DL = 6.973

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0001	P	173.2
2	☐	2.000	1.662	56.67	0.0015	P	73.3
3	☐	20.000	18.087	596.71	0.0150	P	15.2
4	☐	200.000	195.309	6528.20	0.1614	P	1.8
5	☐	2000.000	2000.489	66672.34	1.6526	P	0.9
6	☐	400.000					

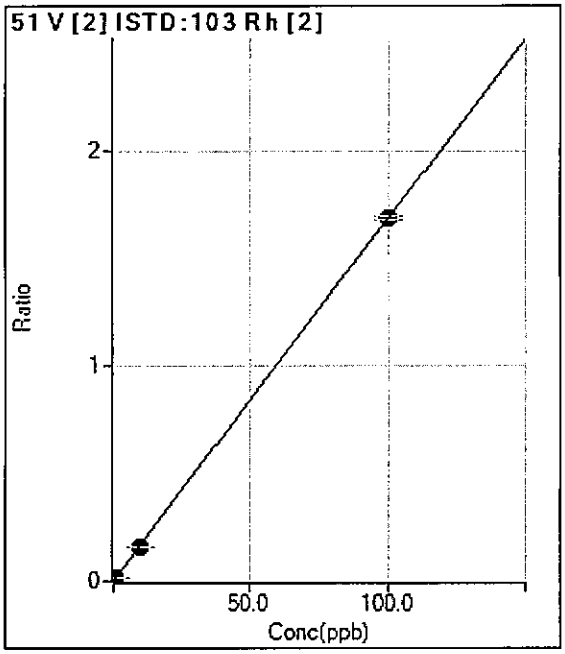
y = 8.2606E-004 * x + 9.8310E-005

R = 1.0000

DL = 0.6184

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.67	0.0006	P	20.4
2	☐	0.100	0.100	173.67	0.0023	P	2.6
3	☐	1.000	0.996	1347.06	0.0174	P	5.6
4	☐	10.000	9.548	12751.92	0.1611	P	1.2
5	☐	100.000	100.045	129347.61	1.6823	P	1.0
6	☐	20.000					

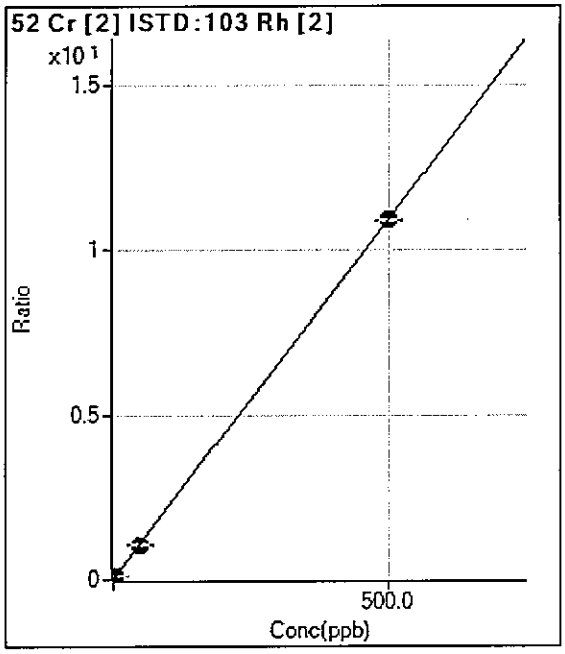
y = 0.0168 * x + 6.3311E-004

R = 1.0000

DL = 0.02307

Weight: None

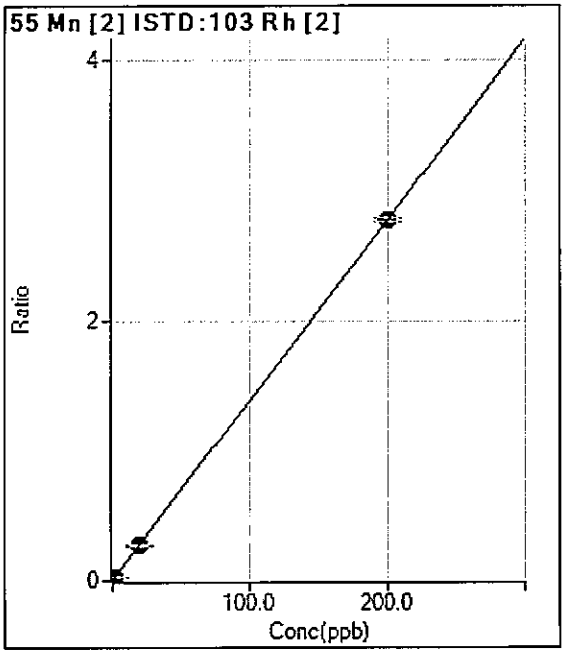
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1008.94	0.0143	P	9.8
2	☐	0.500	0.505	1899.03	0.0253	P	2.5
3	☐	5.000	5.029	9609.60	0.1239	P	3.5
4	☐	50.000	48.240	84347.92	1.0659	P	1.2
5	☐	500.000	500.176	839504.78	10.9179	P	0.8
6	☐	100.000					

y = 0.0218 * x + 0.0143
R = 1.0000
DL = 0.1932

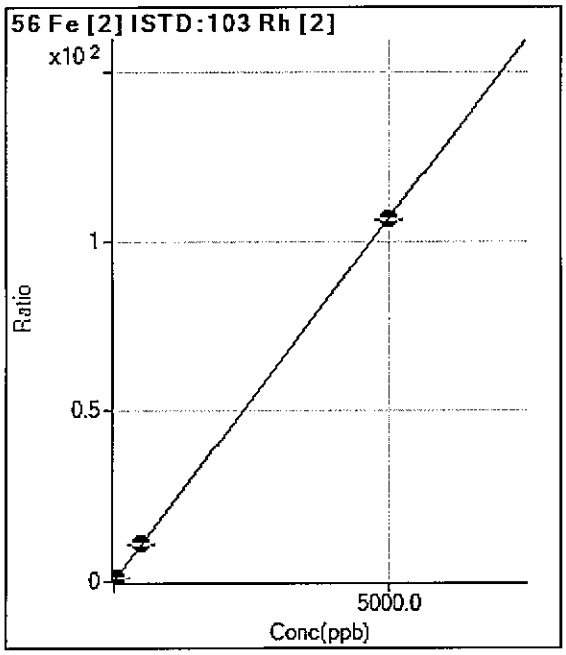
Weight: None
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	168.89	0.0024	P	28.3
2	☐	0.200	0.197	384.45	0.0051	P	16.3
3	☐	2.000	2.013	2346.86	0.0303	P	1.9
4	☐	20.000	19.587	21654.39	0.2736	P	3.0
5	☐	200.000	200.041	213174.96	2.7725	P	1.2
6	☐	40.000					

y = 0.0138 * x + 0.0024
R = 1.0000
DL = 0.1472

Weight: None
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5787.93	0.0822	P	3.4
2	☐	5.000	5.760	15361.08	0.2047	P	1.2
3	☐	50.000	51.659	91598.62	1.1813	P	3.5
4	☐	500.000	517.099	877066.52	11.0840	P	1.8
5	☐	5000.000	4998.273	8183385.09	106.4256	A	0.7
6	☐	1000.000					

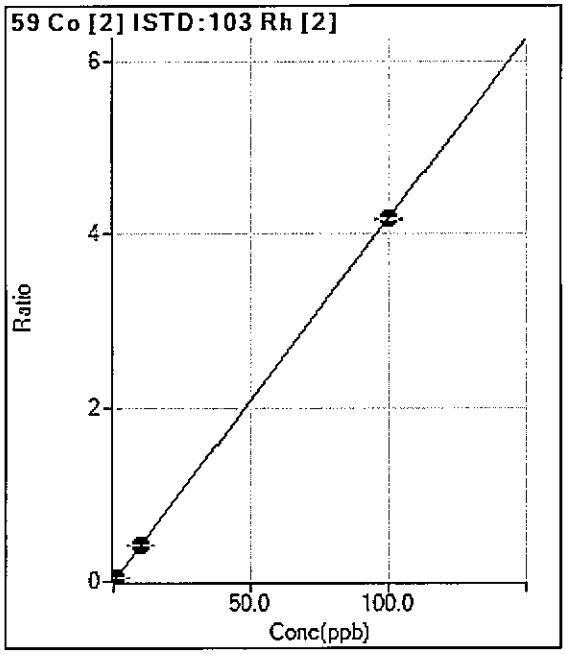
y = 0.0213 * x + 0.0822

R = 1.0000

DL = 0.3973

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0003	P	27.5
2	☐	0.100	0.113	374.45	0.0050	P	14.0
3	☐	1.000	1.006	3272.60	0.0423	P	10.5
4	☐	10.000	9.880	32639.07	0.4124	P	0.7
5	☐	100.000	100.012	320830.82	4.1726	P	0.8
6	☐	20.000					

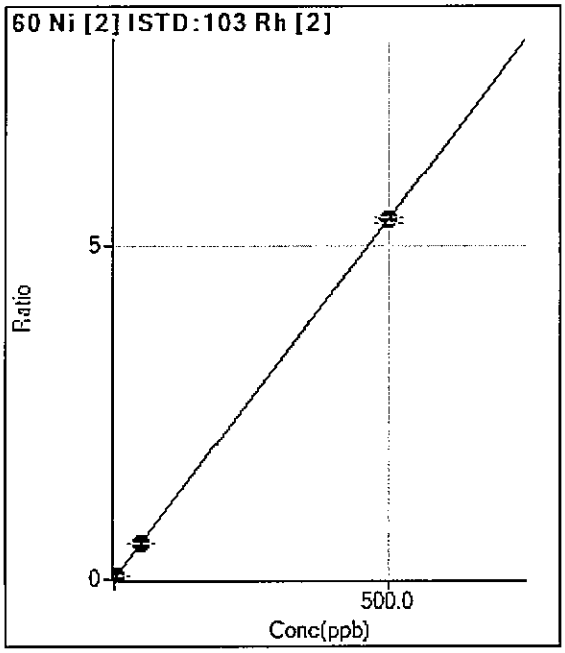
y = 0.0417 * x + 2.8296E-004

R = 1.0000

DL = 0.005591

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	314.45	0.0045	P	12.6
2	☐	0.500	0.595	816.70	0.0109	P	4.9
3	☐	5.000	5.184	4681.85	0.0604	P	2.5
4	☐	50.000	49.827	42875.85	0.5418	P	1.6
5	☐	500.000	500.015	414963.36	5.3970	P	1.3
6	☐	100.000					

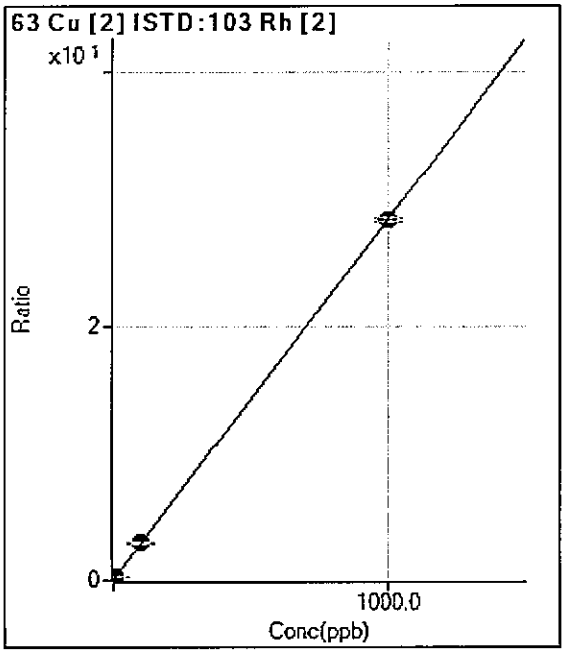
y = 0.0108 * x + 0.0045

R = 1.0000

DL = 0.1569

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1360.08	0.0193	P	9.5
2	☐	1.000	1.127	3847.17	0.0513	P	0.8
3	☐	10.000	10.577	24767.76	0.3195	P	2.4
4	☐	100.000	103.029	232900.18	2.9431	P	1.1
5	☐	1000.000	999.691	2182771.44	28.3886	A	0.9
6	☐	200.000					

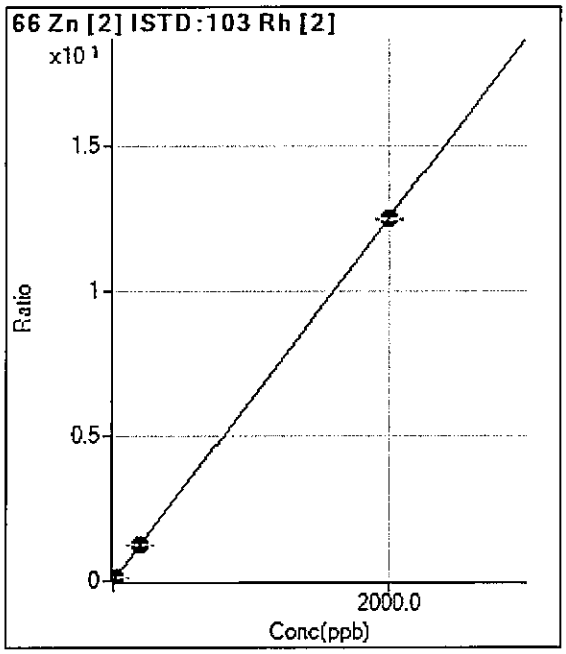
y = 0.0284 * x + 0.0193

R = 1.0000

DL = 0.1946

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	160.01	0.0023	P	17.3
2	☐	2.000	2.769	1466.81	0.0196	P	12.7
3	☐	20.000	22.161	10894.16	0.1406	P	5.1
4	☐	200.000	202.357	100113.25	1.2650	P	1.1
5	☐	2000.000	1999.742	959739.96	12.4814	P	0.4
6	☐	400.000					

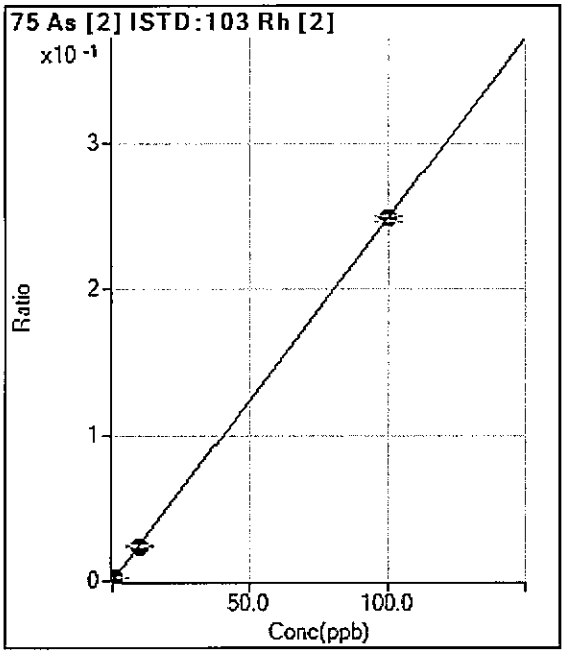
y = 0.0062 * x + 0.0023

R = 1.0000

DL = 0.1889

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	47.7
2	☐	0.100	0.088	20.00	0.0003	P	43.4
3	☐	1.000	0.945	185.67	0.0024	P	17.1
4	☐	10.000	9.716	1909.45	0.0241	P	3.1
5	☐	100.000	100.029	19069.80	0.2480	P	1.4
6	☐	20.000					

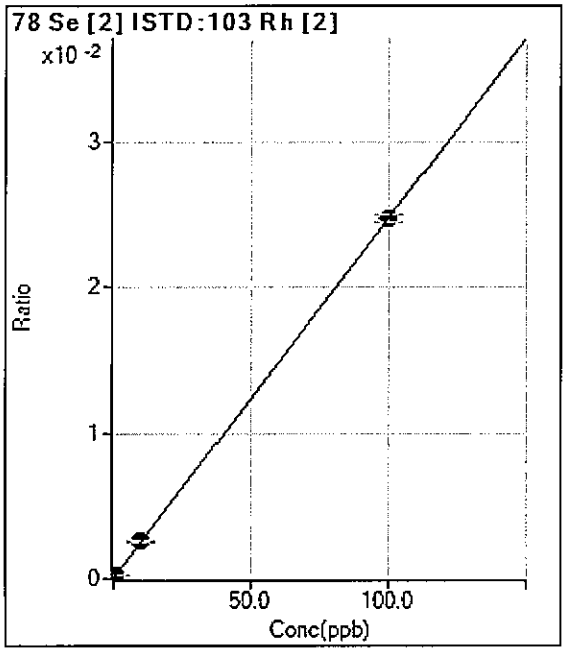
y = 0.0025 * x + 4.7588E-005

R = 1.0000

DL = 0.02745

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.40	0.0000	P	101.1
2	☐	0.100	0.085	2.00	0.0000	P	35.0
3	☐	1.000	1.047	20.53	0.0003	P	13.0
4	☐	10.000	10.334	202.53	0.0026	P	7.2
5	☐	100.000	99.966	1900.25	0.0247	P	2.0
6	☐	20.000					

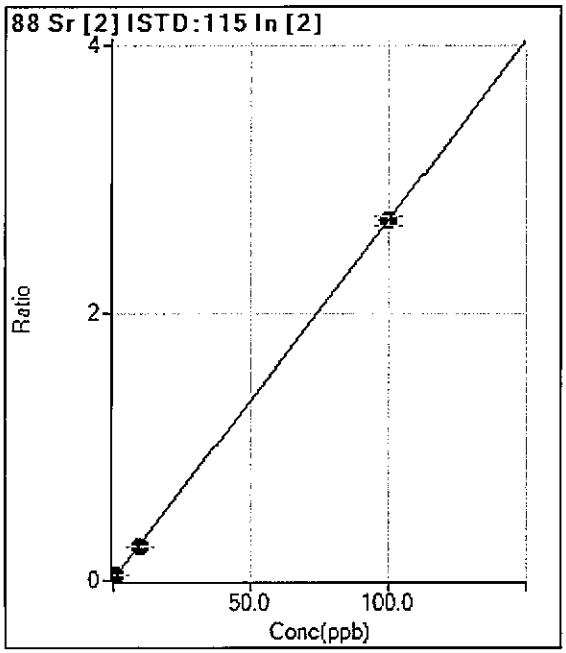
y = 2.4718E-004 * x + 5.7336E-006

R = 1.0000

DL = 0.07037

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	273.35	0.0077	P	19.6
2	☐	0.100	0.063	363.36	0.0094	P	23.4
3	☐	1.000	1.102	1476.80	0.0373	P	8.3
4	☐	10.000	9.521	10650.68	0.2634	P	0.6
5	☐	100.000	100.047	108660.16	2.6941	P	2.4
6	☐	20.000					

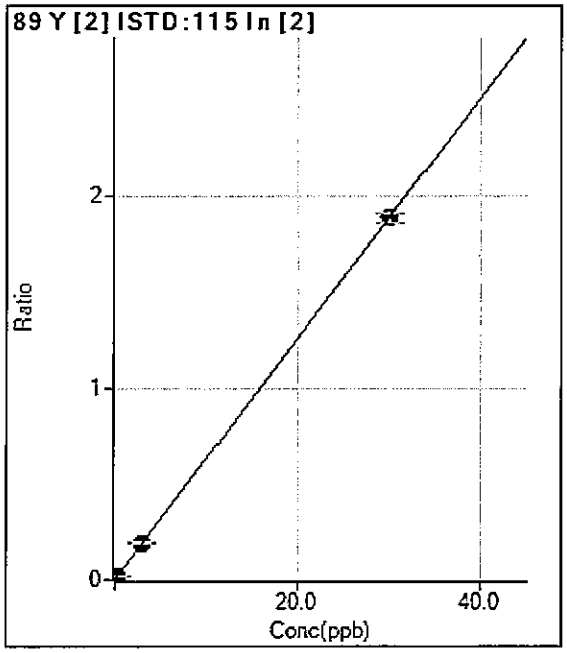
y = 0.0269 * x + 0.0077

R = 1.0000

DL = 0.1686

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0002	P	86.8
2	☐	0.030	0.022	60.00	0.0016	P	32.9
3	☐	0.300	0.305	770.06	0.0194	P	11.6
4	☐	3.000	3.087	7879.00	0.1948	P	2.3
5	☐	30.000	29.991	76262.36	1.8909	P	2.5
6	☐	6.000					

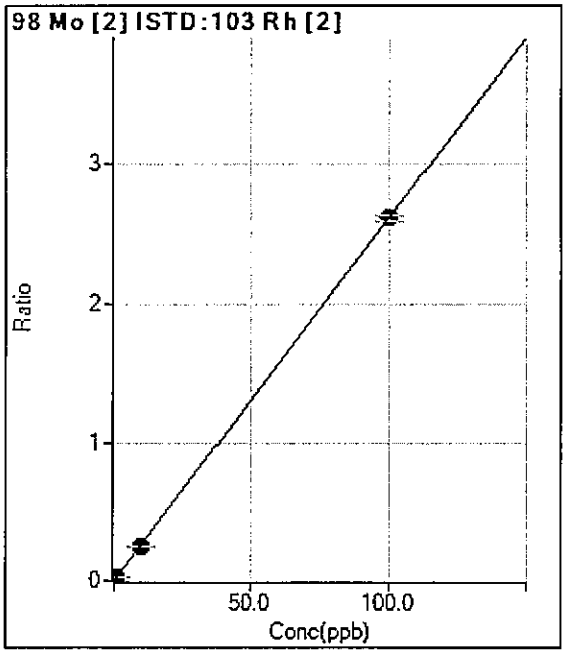
y = 0.0630 * x + 1.8901E-004

R = 1.0000

DL = 0.007808

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.89	0.0001	P	22.3
2	☐	0.100	0.093	191.11	0.0025	P	26.1
3	☐	1.000	0.973	1980.16	0.0255	P	1.5
4	☐	10.000	9.697	20046.14	0.2533	P	0.5
5	☐	100.000	100.031	200795.21	2.6117	P	1.9
6	☐	20.000					

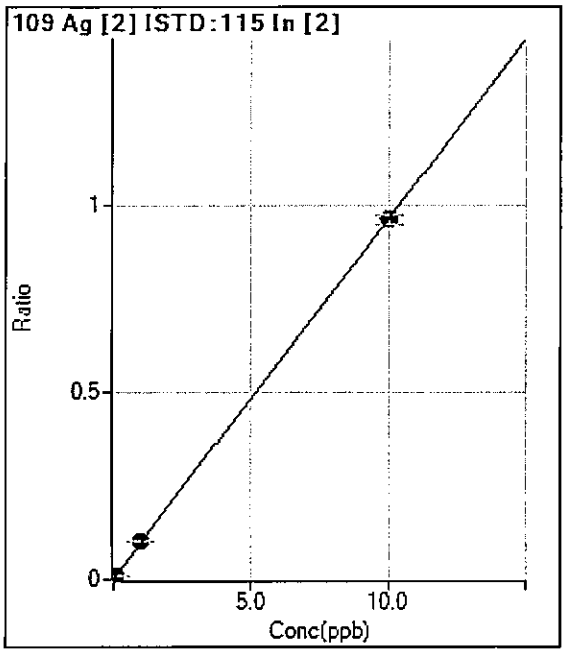
y = 0.0261 * x + 1.2636E-004

R = 1.0000

DL = 0.003234

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	0.010	0.013	50.00	0.0013	P	7.0
3	☐	0.100	0.117	447.79	0.0113	P	13.7
4	☐	1.000	1.073	4180.61	0.1034	P	2.2
5	☐	10.000	9.993	38847.73	0.9632	P	2.4
6	☐	2.000					

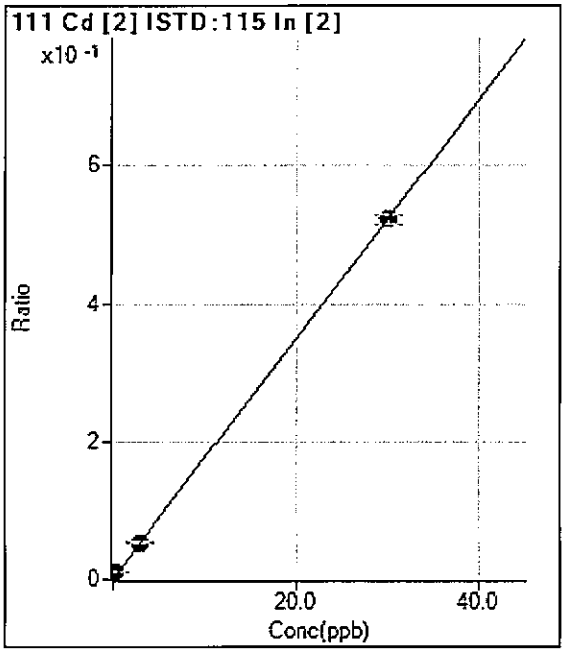
y = 0.0964 * x + 0.0000E+000

R = 1.0000

DL = 0

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	0.030	0.042	28.61	0.0007	P	30.7
3	☐	0.300	0.617	426.06	0.0108	P	6.2
4	☐	3.000	3.079	2170.60	0.0537	P	1.5
5	☐	30.000	29.989	21085.06	0.5228	P	2.7
6	☐	6.000					

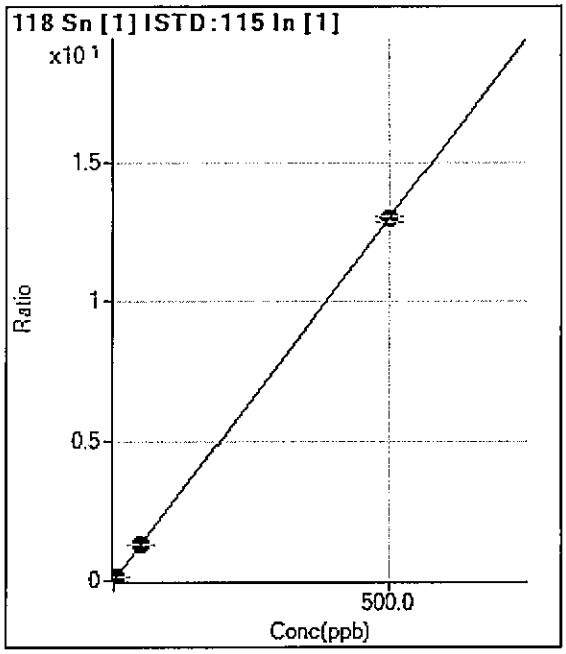
y = 0.0174 * x + 0.0000E+000

R = 1.0000

DL = 0

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	573.37	0.0027	P	5.8
2	☐	0.500	0.664	4577.54	0.0199	P	3.5
3	☐	5.000	5.295	33854.23	0.1400	P	1.1
4	☐	50.000	50.840	322565.48	1.3211	P	1.0
5	☐	500.000	499.913	3179946.31	12.9667	A	1.5
6	☐	100.000					

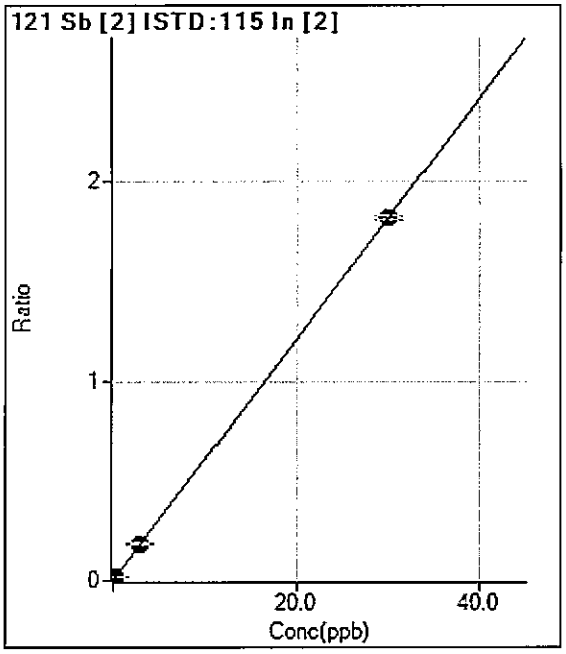
y = 0.0259 * x + 0.0027

R = 1.0000

DL = 0.01793

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.78	0.0002	P	136.6
2	☐	0.030	0.030	78.89	0.0020	P	16.3
3	☐	0.300	0.298	718.91	0.0182	P	19.0
4	☐	3.000	3.037	7424.07	0.1837	P	4.0
5	☐	30.000	29.996	73108.06	1.8122	P	1.0
6	☐	6.000					

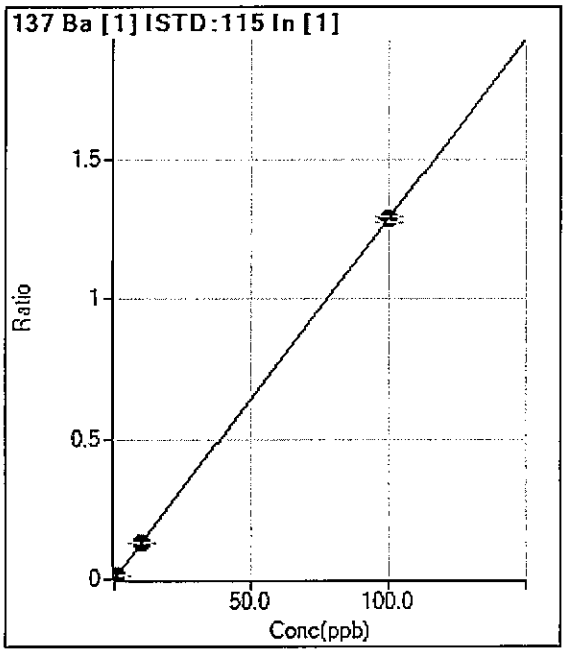
y = 0.0604 * x + 2.2165E-004

R = 1.0000

DL = 0.01504

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0002	P	44.6
2	☐	0.100	0.199	640.04	0.0028	P	2.1
3	☐	1.000	1.232	3880.67	0.0160	P	6.6
4	☐	10.000	10.199	32044.33	0.1312	P	1.8
5	☐	100.000	99.978	315066.07	1.2847	P	1.3
6	☐	20.000					

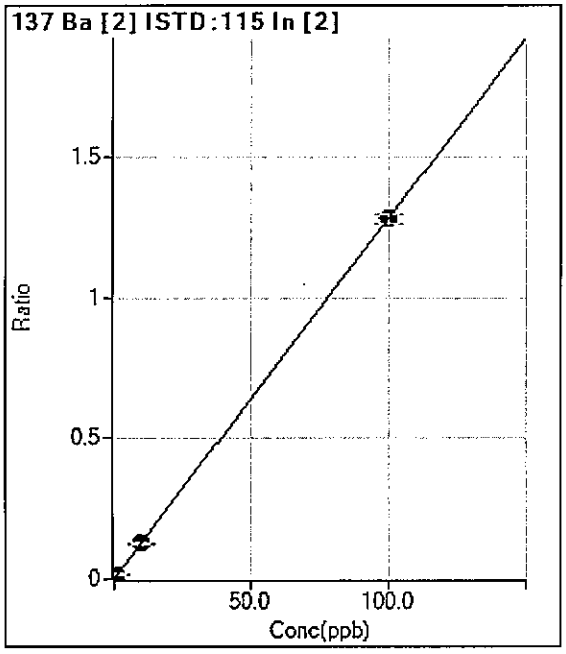
y = 0.0128 * x + 2.1687E-004

R = 1.0000

DL = 0.02258

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0001	P	173.2
2	☐	0.100	0.148	76.67	0.0020	P	26.0
3	☐	1.000	1.273	650.04	0.0164	P	20.0
4	☐	10.000	9.866	5111.08	0.1264	P	8.7
5	☐	100.000	100.011	51647.31	1.2807	P	2.9
6	☐	20.000					

y = 0.0128 * x + 9.0697E-005

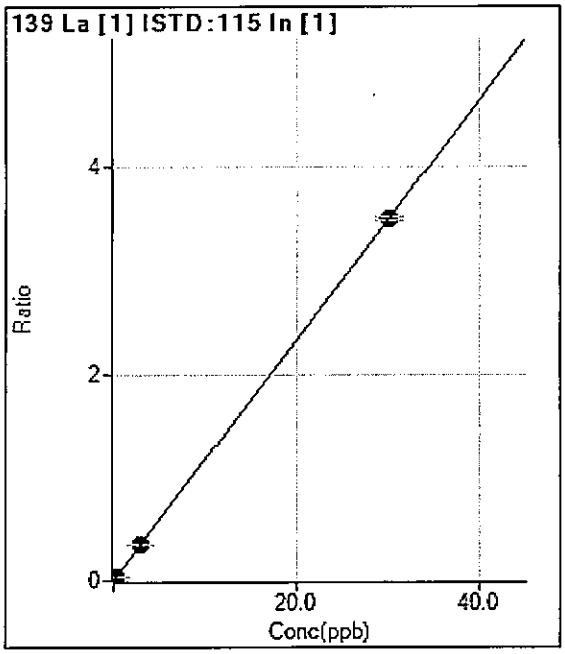
R = 1.0000

DL = 0.03681

BEC = 0.007083

Weight: None

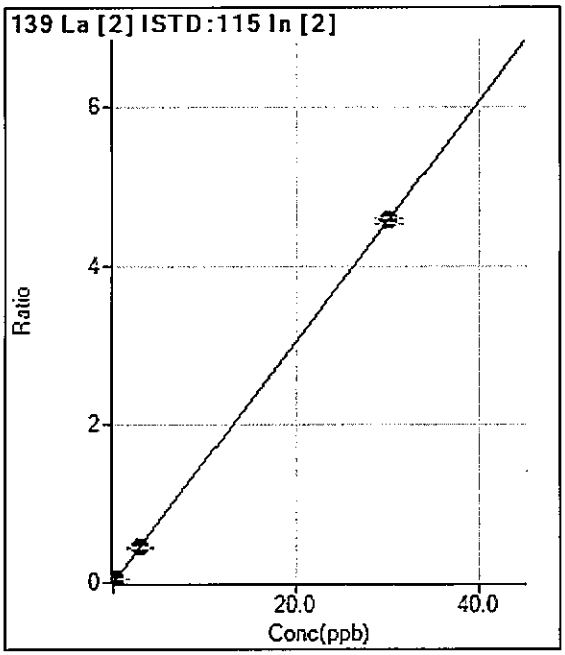
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	256.68	0.0012	P	32.7
2	☐	0.030	0.026	966.74	0.0042	P	15.8
3	☐	0.300	0.329	9573.36	0.0396	P	10.6
4	☐	3.000	3.006	85828.29	0.3515	P	1.1
5	☐	30.000	29.999	857575.40	3.4968	P	1.2
6	☐	6.000					

y = 0.1165 * x + 0.0012
R = 1.0000
DL = 0.01003

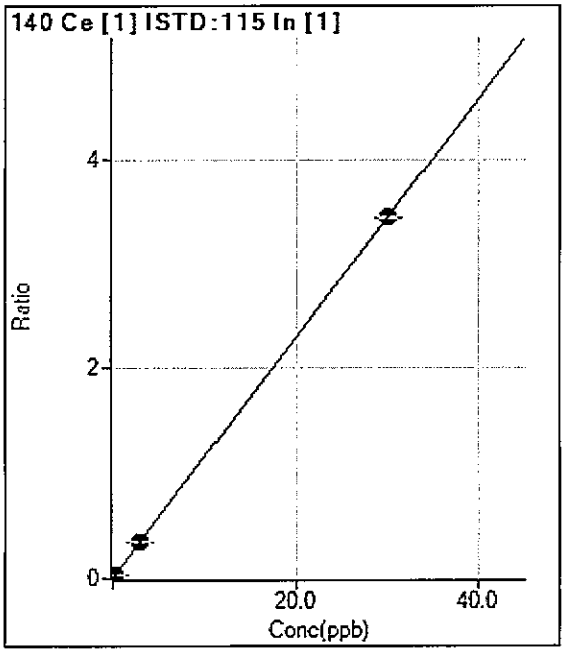
Weight: None
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.00	0.0009	P	37.0
2	☐	0.030	0.032	220.01	0.0057	P	24.1
3	☐	0.300	0.339	2070.27	0.0524	P	12.5
4	☐	3.000	2.938	18138.22	0.4483	P	4.1
5	☐	30.000	30.006	184364.10	4.5707	P	1.9
6	☐	6.000					

y = 0.1523 * x + 8.5801E-004
R = 1.0000
DL = 0.006261
BEC = 0.005634

Weight: None
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0005	P	30.0
2	☐	0.030	0.040	1156.77	0.0050	P	17.5
3	☐	0.300	0.330	9266.56	0.0383	P	4.5
4	☐	3.000	3.013	84428.17	0.3458	P	2.0
5	☐	30.000	29.998	843343.95	3.4387	P	0.8
6	☐	6.000					

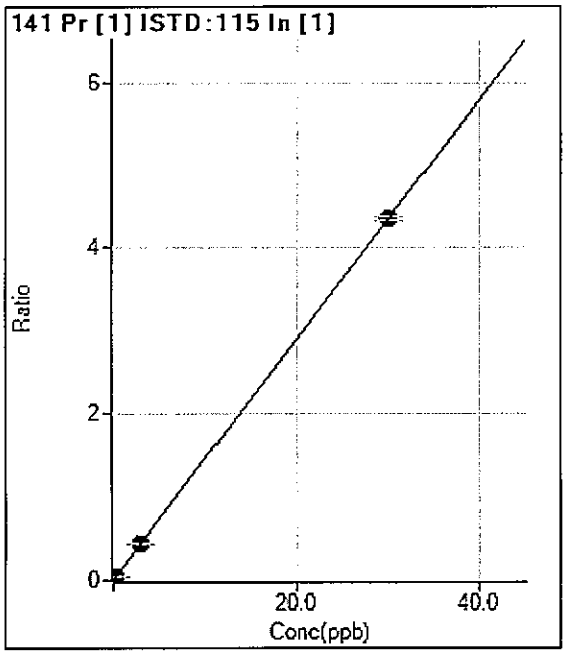
y = 0.1146 * x + 4.9554E-004

R = 1.0000

DL = 0.003892

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0001	P	49.9
2	☐	0.030	0.029	973.41	0.0042	P	6.8
3	☐	0.300	0.305	10710.85	0.0443	P	4.6
4	☐	3.000	3.044	107748.64	0.4414	P	3.4
5	☐	30.000	29.996	1066380.79	4.3482	P	1.1
6	☐	6.000					

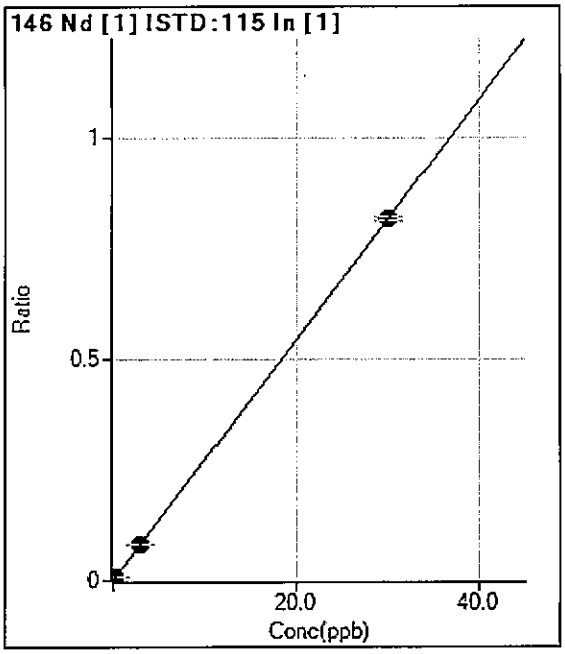
y = 0.1450 * x + 9.2920E-005

R = 1.0000

DL = 0.0009593

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.00	0.0001	P	0.2
2	☐	0.030	0.038	260.02	0.0011	P	18.0
3	☐	0.300	0.308	2046.91	0.0085	P	3.5
4	☐	3.000	2.996	19933.84	0.0816	P	1.1
5	☐	30.000	30.000	200269.93	0.8166	P	1.2
6	☐	6.000					

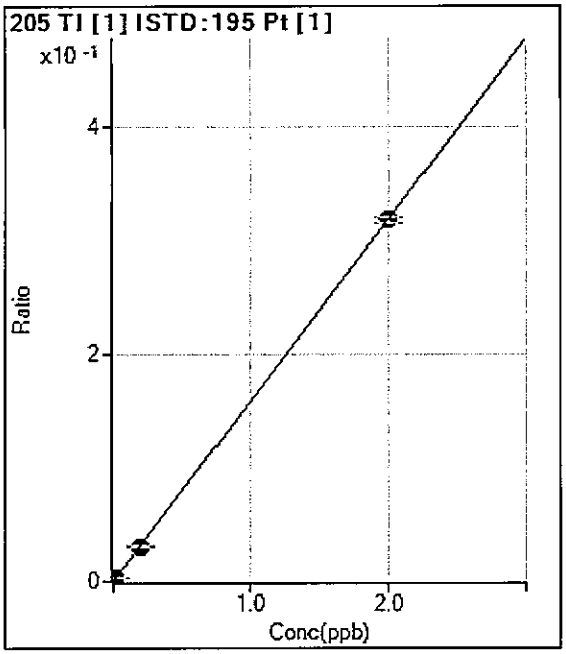
y = 0.0272 * x + 9.2942E-005

R = 1.0000

DL = 2.118E-05

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.91	0.0001	P	6.9
2	☐	0.002	0.002	63.33	0.0004	P	3.6
3	☐	0.020	0.021	583.82	0.0034	P	1.2
4	☐	0.200	0.194	5597.76	0.0309	P	4.9
5	☐	2.000	2.001	55888.46	0.3181	P	1.4
6	☐	0.400					

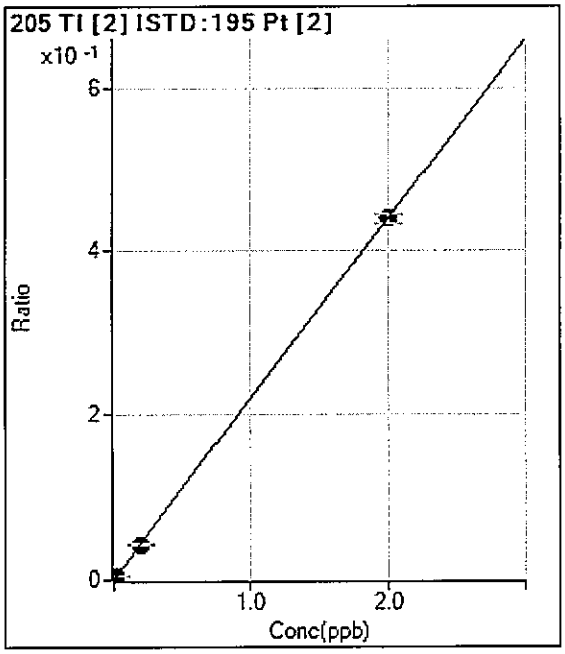
y = 0.1590 * x + 7.4325E-005

R = 1.0000

DL = 9.686E-05

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.81	0.0001	P	95.5
2	☐	0.002	0.002	23.33	0.0006	P	33.4
3	☐	0.020	0.020	191.91	0.0044	P	13.3
4	☐	0.200	0.194	1894.90	0.0428	P	7.5
5	☐	2.000	2.001	19335.51	0.4399	P	2.6
6	☐	0.400					

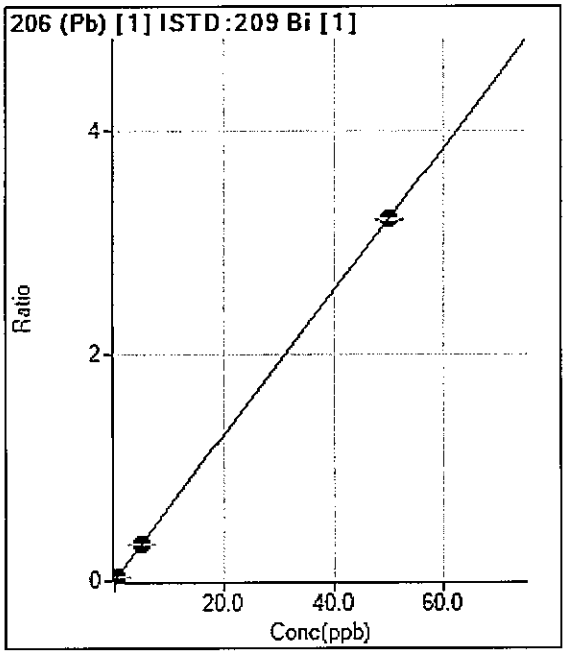
y = 0.2199 * x + 9.8183E-005

R = 1.0000

DL = 0.00128

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	563.37	0.0038	P	8.1
2	☐	0.050	0.047	1080.10	0.0068	P	10.4
3	☐	0.500	0.530	6271.69	0.0378	P	10.2
4	☐	5.000	4.987	55573.01	0.3234	P	1.7
5	☐	50.000	50.001	542284.67	3.2080	P	0.5
6	☐	10.000					

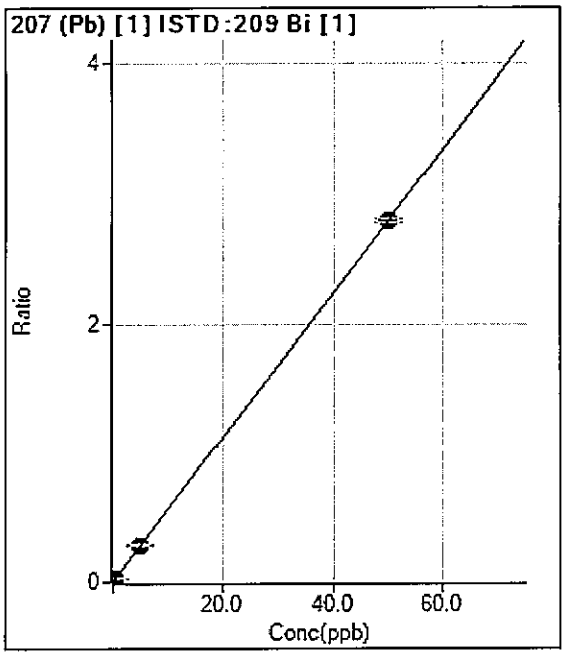
y = 0.0641 * x + 0.0038

R = 1.0000

DL = 0.01453

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	470.04	0.0032	P	24.3
2	☐	0.050	0.046	903.41	0.0057	P	19.4
3	☐	0.500	0.551	5621.36	0.0338	P	1.4
4	☐	5.000	5.076	49089.80	0.2856	P	1.7
5	☐	50.000	49.992	470789.16	2.7851	P	0.9
6	☐	10.000					

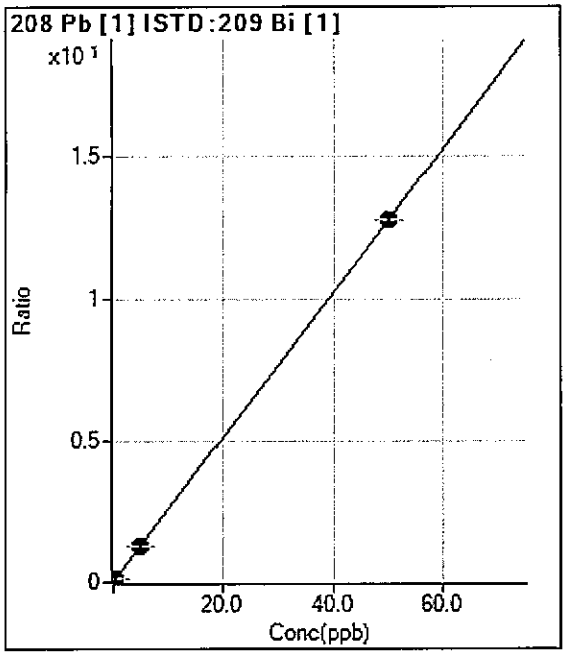
y = 0.0556 * x + 0.0032

R = 1.0000

DL = 0.0417

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2360.20	0.0160	P	3.9
2	☐	0.050	0.050	4540.56	0.0288	P	8.6
3	☐	0.500	0.533	25216.32	0.1518	P	4.5
4	☐	5.000	5.050	224039.59	1.3038	P	1.0
5	☐	50.000	49.995	2157893.89	12.7655	P	0.1
6	☐	10.000					

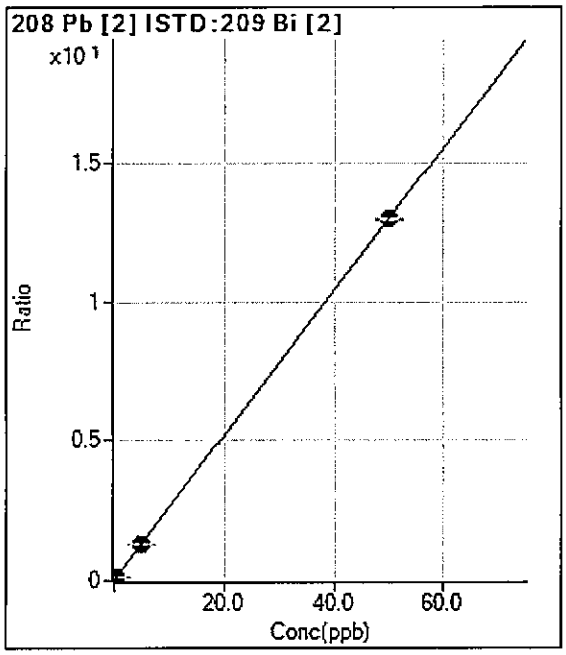
y = 0.2550 * x + 0.0160

R = 1.0000

DL = 0.007296

Weight: None

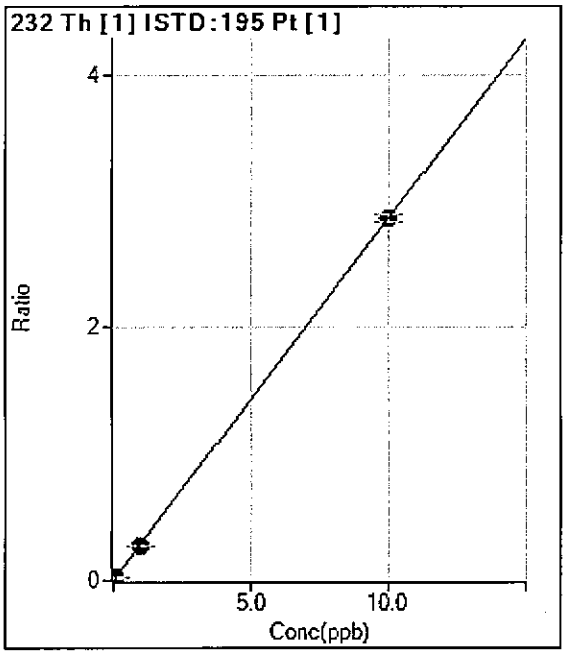
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	726.72	0.0154	P	12.4
2	☐	0.050	0.047	1413.43	0.0276	P	8.2
3	☐	0.500	0.520	8094.68	0.1503	P	2.9
4	☐	5.000	5.047	71942.90	1.3255	P	2.5
5	☐	50.000	49.995	698985.33	12.9948	P	0.7
6	☐	10.000					

y = 0.2596 * x + 0.0154
R = 1.0000
DL = 0.02205
BEC = 0.05915

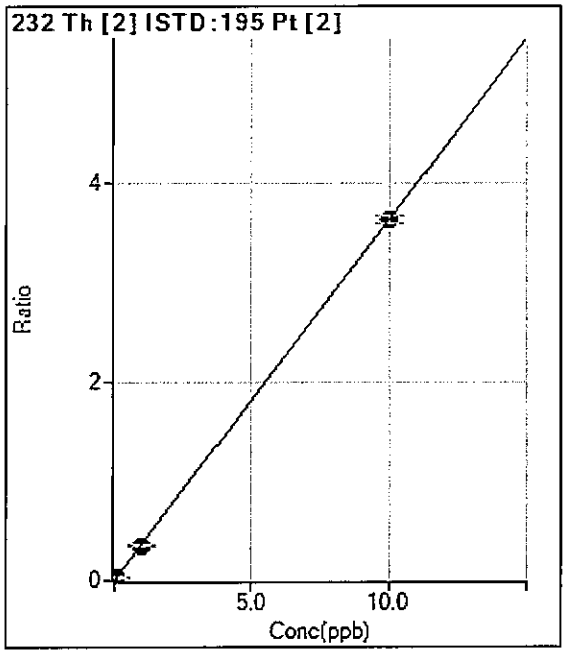
Weight: None
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0004	P	32.7
2	☐	0.010	0.006	380.01	0.0022	P	9.4
3	☐	0.100	0.079	3979.50	0.0229	P	5.3
4	☐	1.000	0.951	49178.64	0.2715	P	1.6
5	☐	10.000	10.005	501243.99	2.8535	P	2.1
6	☐	2.000					

y = 0.2852 * x + 3.7369E-004
R = 1.0000
DL = 0.001284

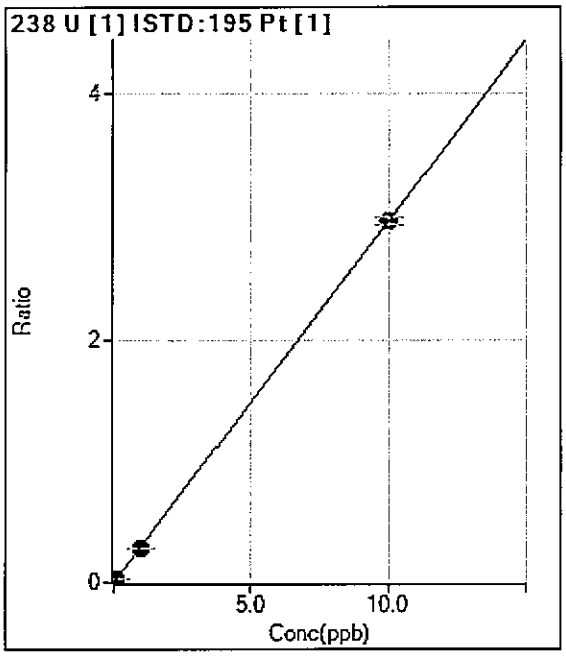
Weight: None
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0006	P	62.7
2	☐	0.010	0.007	131.11	0.0031	P	8.5
3	☐	0.100	0.081	1303.41	0.0299	P	8.4
4	☐	1.000	0.967	15559.63	0.3512	P	4.4
5	☐	10.000	10.004	159436.28	3.6278	P	2.1
6	☐	2.000					

y = 0.3626 * x + 5.9878E-004
R = 1.0000
DL = 0.003104
BEC = 0.001651

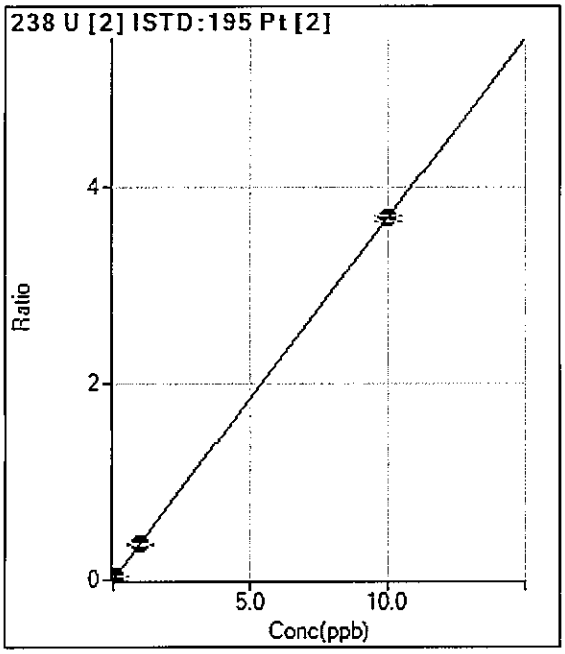
Weight: None
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	45.56	0.0003	P	99.3
2	☐	0.010	0.009	516.69	0.0030	P	5.5
3	☐	0.100	0.100	5166.55	0.0298	P	7.6
4	☐	1.000	0.965	51795.47	0.2859	P	1.5
5	☐	10.000	10.004	520178.84	2.9613	P	2.1
6	☐	2.000					

y = 0.2960 * x + 2.8468E-004
R = 1.0000
DL = 0.002865

Weight: None
Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.44	0.0001	P	173.2
2	☐	0.010	0.009	146.67	0.0035	P	5.3
3	☐	0.100	0.103	1660.12	0.0382	P	4.0
4	☐	1.000	0.989	16142.39	0.3642	P	2.0
5	☐	10.000	10.001	161814.71	3.6818	P	1.5
6	☐	2.000					

y = 0.3681 * x + 1.1632E-004

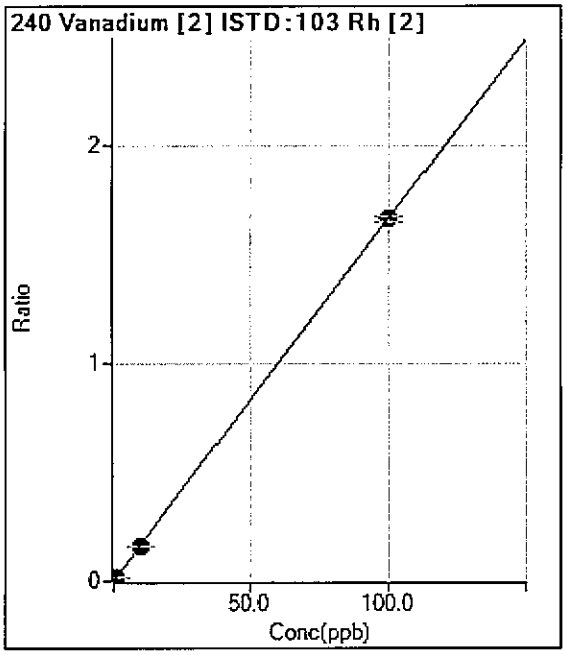
R = 1.0000

DL = 0.001642

BEC = 0.000316

Weight: None

Min Conc: <None>



	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-8.47	-0.0001	P	-204.3
2	☐	0.100	0.083	94.26	0.0013	P	56.5
3	☐	1.000	1.008	1289.68	0.0166	P	6.2
4	☐	10.000	9.378	12329.61	0.1558	P	1.2
5	☐	100.000	100.062	127890.87	1.6635	P	1.8
6	☐	20.000					

y = 0.0166 * x - 1.2253E-004

R = 1.0000

DL = 0.04517

Weight: None

Min Conc: <None>

Miscellaneous

METALS DIGESTION WORKSHEET

ALS Laboratory Group

Digestion Date 9/20/13 | HCl Lot No. 40272 | Method: EPA 200.2 | Beaker Lot No. J164474-263 | Initial Prep NAQ | Final Prep NAQ

Digestion Batch IP130920-1 | HNO_3 Lot No. 50770 | SOP/Rev: 806 R15 | Avg. Beaker Wt. (g) 10.3 | Prep Start Time 0900 | Prep End Time 1500

Temp 95 °C | Peroxide Lot No. ~~218704~~ 11J 9/20/13 | Balance(s): 30 | Pipet(s): M-51 | Digestate Wt. (g) 50.39

Form 805r20.xls (02/10/11) | Note: Each Page is copied as completed and included with the workorder/run documentation; reviewed subsequently

QC Grp	Lab Sample ID	Instrument	Init Vol/Wt (mL/g)	Final Vol. (mL)	Final Wt. (g)	pH	Comments, including metals list
	1309198-1	TR	50.0	50.0	60.6	2	
	-1D						
	-1MS						
	-1MSD						
	-2						
	-3						
	-4						
	-5						
	-6						
	-7						
	-8						
	-9						
	-10						
	-11						
	-11D						
	-11MS						
	-11MSD						
	-12	↓					
	1309199-1	↓					
	1309158-1	TR/MS					
	1309217-2	↓					
	1309027-1	MS					
	1309234-1	↓					
	1309196-1	↓					
	1309236-1	↓					
	IP130920-1MB	TR/LCS					
	-1LCS	↓					
	IM130920-1LCS	↓	↓	↓	↓	↓	
	MZ 9/20/13						

QC Grp	Lab Sample ID	Init Vol/Wt (mL/g)	Final Vol. (mL)	Final Wt. (g)
	MZ			
	9/20/13			

Spiking Information

QC	Amount	
ST130724-1	0.5mL	MS
ST130424-1	1.0mL	Z
ST12123-2	1.0mL	Cat

METALS DIGESTION WORKSHEET

ALS Laboratory Group

Digestion Date 9/24/13 HCl Lot No. 46272 Method: EPA 200.2 Beaker Lot No. SIG 40424-2C.3 Initial Prep NHO Final Prep NHC

Digestion Batch EP130924-3 HNO_3 Lot No. SD=7C SOP/Rev: 806K15 Avg. Beaker Wt. (g) 0.3 Prep Start Time 1200 Prep End Time 1800

Temp 85 °C Peroxide Lot No. — Balance(s): 36 Pipet(s): M 50, M-7 Digestate Wt. (g) 50.38

Form 805r20.xls (02/10/11)

Note: Each Page is copied as completed and included with the workorder/run documentation; reviewed subsequently

QC Grp	Lab Sample ID	Instrument	Init Vol/Wt (mL / g)	Final Vol. (mL)	Final Wt. (g)	pH	Comments, including metals list
	1309158-1	TX	50.0	50	60.7	<2	9158, 9217
	1309217-2						
	1309218-2						
	-3						
	-12						
	1309258-1	MS					
	-1D	TX/MS					
	-1MS						
	-1MSD						
	1309260-1	MS					
	1309276-1						
	-2						
	1309279-1	TX					
	-2						
	~~1309295-22~~						
	-23						
	-24						
	-25 9/24/13						
	-25D	DC/MS					
	-25MS						
	-25MSD						
	-26	TX					
	-27						
	1309303-1	MS					
	1309304-1	TX					
	F1309231MB	TX/MS					
	-LCS						
	-LCSD						
	FM130923-LCS						
	-LCSD						

QC Grp	Lab Sample ID	Init Vol/Wt. (mL / g)	Final Vol. (mL)	Final Wt. (g)

9/24/13

Spiking Information

QC	Amount	
ST130724-1	.5mL	MS
ST121231-3	.5mL	C
ST121231-2	1mL	Cal
ST130424-1	1mL	Z
ST120619-35	.05mL	P
ST120619-34	.05mL	S

435899